Video Cassette Recorder

Service
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VR550/39/58

Service Manual

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Schematic Diagrams and CBA's
Exploded Views
Mechanical and Electrical Parts Lists

Sec. 2: Standard Maintenance
Mechanism Alignment Procedures
Disassembly / Assembly of Mechanism
Deck Exploded Views

Survey of versions:

/02	PAL B/G
/07	PAL I, UK/IRELAND
/16	PAL B/G, Spain
/39	PAL/SECAM-BG+PAL/SECAM-L/L',FRANCE
/58	PAL-BG/DK+SECAM-BG/DK,EAST-EURO

For technical data reference is made to the Service Manual of VR550/02/07/16 3103 785 22260. The present manual states only the differences.

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

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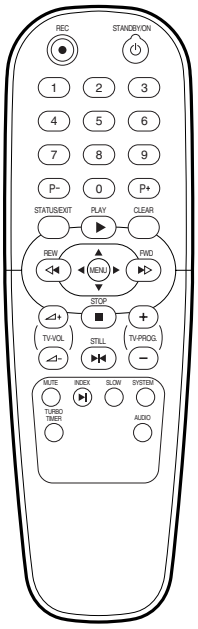
GB 3103 785 22270

OPERATING CONTROLS AND FUNCTIONS

[VR550/ (39, 58)]

The remote control



Buttons for VCR feature only

REC ● To record the TV channel selected at this moment.

STANDBY/ON ⏻ To switch off or on, interrupt menu function.

0..9 Press to select channels at VCR.

P+ **P–** To select the programme number. During normal or slow motion playback, press to adjust the tracking.

STATUS/EXIT To access or remove the VCR's on-screen status display. To exit on-screen menus.

CLEAR To delete last entry. To clear a programmed recording (TIMER). To reset the elapsed time counter in the playback, recording or stop mode.

STILL ▶I◀ To stop the tape and play back a picture step by step. (except for during fast forwarding and fast rewinding)

INDEX ▶I In combination with ◁◀/▶▷:to search for previous or next recording on the cassette.

SLOW To view the picture in slow motion.

AUDIO To change stereo sound and 2nd language.

TURBO TIMER To programme a recording with the function TURBO TIMER.

SYSTEM To change the Video (Colour) System.

MENU To call up main menu of VCR.

FWD ▶▷- ▶ When tape playback is stopped, press to fast forward the tape at high speed. During playback, press to fast forward the tape while the picture stays on the screen. To store or confirm entry in the menu.

REW ◁◀- ◀ When tape playback is stopped, press to rewind the tape at high speed. During playback, press to rewind the tape while the picture stays on the screen.To return the cursor in the menu.

PLAY ▶- ▲ To play back a tape, select an item in the menu of VCR.

STOP ■- ▼ To stop the tape, select an item in the menu of VCR.

Buttons with TV feature

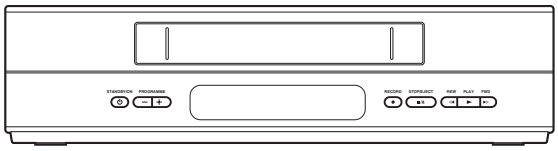
MUTE To eliminate the TV's sound. Press again to restore the volume.

TV-VOL ◿+ **TV-VOL ◿–** To adjust the TV's volume.

TV-PROG.+ **TV-PROG.–** To select a programme number on the TV.

You can use this remote control to operate some functions of Philips TVs.

Front of your VCR



STANDBY/ON To switch off or on, interrupt menu function.

PROGRAMME+ **PROGRAMME-** To select the programme number. During normal or slow motion playback, press to adjust the tracking.

RECORD To record the TV channel selected at this moment.

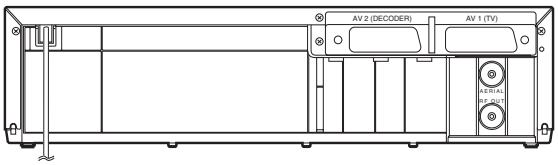
FWD. When tape playback is stopped, press to fast forward the tape at high speed. During playback, press to fast forward the tape while the picture stays on the screen.

REW. When tape playback is stopped, press to rewind the tape at high speed. During playback, press to rewind the tape while the picture stays on the screen.

PLAY To play back a tape.

STOP/EJECT To stop the tape and eject the cassette.

Back of your VCR



AV2(DECODER) To connect a satellite receiver, decoder, video recorder, etc.

AV1(TV) To connect the TV.

AERIAL To connect the aerial cable.

RF OUT To connect the TV.

SIGNAL NAME ABBREVIATIONS

[VR550/ (39, 58)]

Signal Name	Function
16P	SCART 16Pin Control Signal
4.43MHz	4.43MHz Clock
8POUT-1	SCART 1 8Pin Output Control Signal
8POUT-2	SCART 2 8Pin Output Control Signal
A-COM	Audio Head Common
A-IN	Audio Signal Input
A-MODE	Hi-Fi Tape Detection Signal
A-MUTE-H	Audio Mute Control Signal (Mute = “H”)
A-OUT	Audio Signal Output
A-PB/REC	Normal Audio Play Back/Record Signal
AE-H	Audio Erase Head
AFC	Automatic Frequency Control Signal
AGC	IF AGC Comparator Signal
AL+12V	Always +12V with AC Plug Connected
AL+12V/+20.5V	Always +12V/+20.5V with AC Plug Connected
AL+15V	Always +15V with AC Plug Connected
AL+44V	Always +9V with AC Plug Connected
AL+5V	Always +5V with AC Plug Connected
AL+9V	Always +9V with AC Plug Connected
AMPC	CTL AMP Connected Terminal
AMPVcc	AMPVcc
AMPVREF IN	V-Ref for CTL AMP
AMPVREF OUT	V-Ref for CTL AMP
AVcc	A/D Converter Power Input/ Standard Voltage Input
C-CONT	Capstan Motor Control Signal
C-F/R	Capstan Motor FWD/REV Control Signal (FWD=”L”/ REV=”H”)
C-FG	Capstan Motor Rotation Detection Pulse
C-POW-SW	Capstan Power Switching Pulse

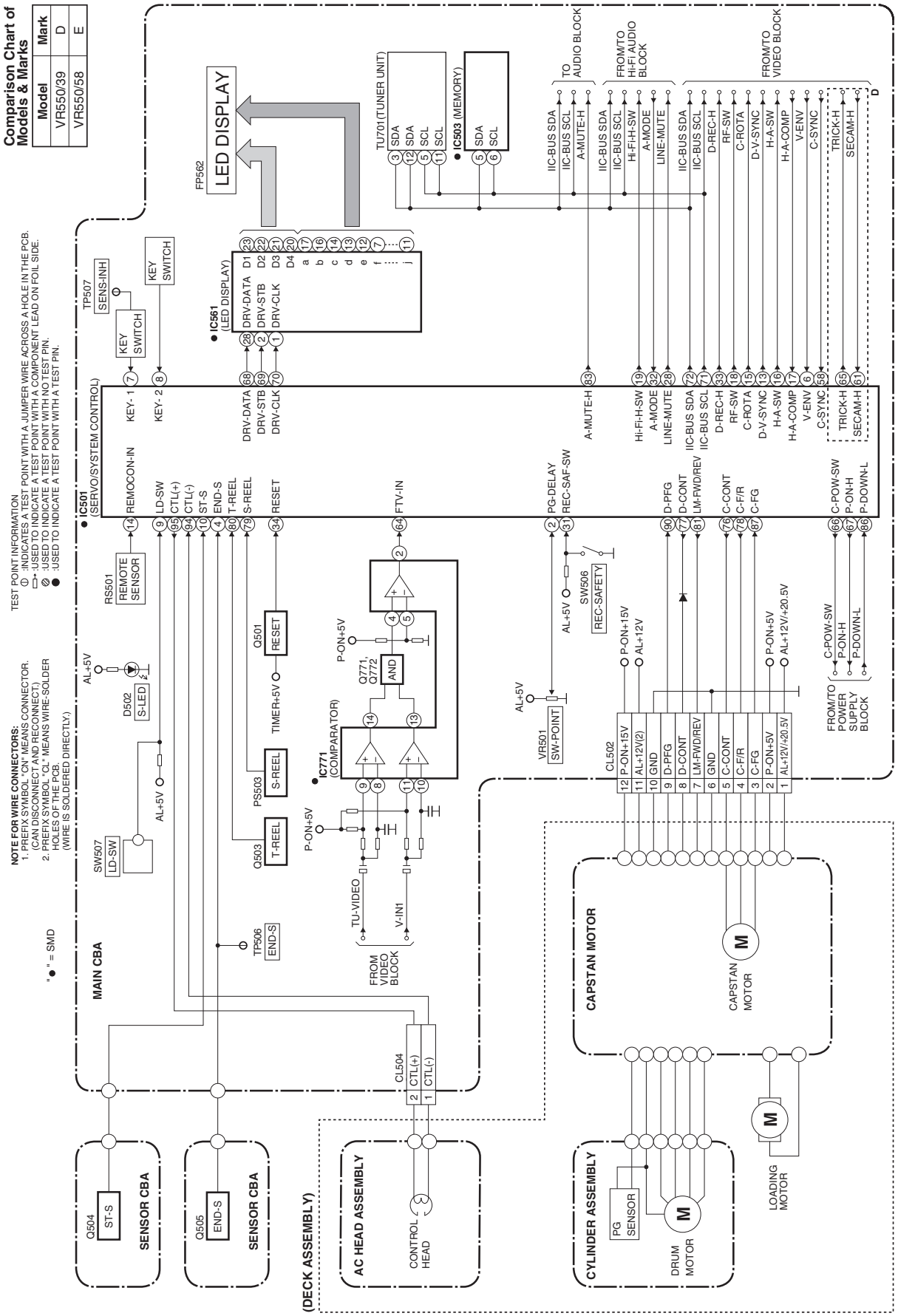
Signal Name	Function
C-ROTA	Color Phase Rotary Changeover SIgnal
C-SYNC	Composite Synchronized Pulse
CLKSEL	Clock Select (GND)
CTL (+)	Playback/Record Control Signal (+)
CTL (-)	Playback/Record Control Signal (-)
CTLAMPout	To Monitor for CTL AMP Output
D-CONT	Drum Motor Control Signal
D-PFG	Drum Motor Pulse Generator
D-REC-H	Delayed Record Signal
D-V-SYNC	Dummy V-sync Output
DRV-CLK	LED Clock Driver IC Control Clock
DRV-DATA	LED Clock Driver IC Control Data
DRV-STB	LED Clock Driver IC Chip Select Signal
END-S	Tape End Position Detect Signal
FE-H	Full Erase Head
FSC-IN [4.43MHz]	4.43MHz Clock Input
FTV-IN	Comparator Input of Video Signal for Follow TV
H-A-COMP	Head Amp Comparator Signal
H-A-SW	Video Head Amp Switching Pulse
Hi-Fi-A	Hi-Fi Audio Head
Hi-Fi-COM	Hi-Fi Audio Head Common
Hi-Fi-H-SW	Hi-Fi Audio Head Switching Pulse
HLF	LPF Connected Terminal (Slicer)
IIC-BUS SCL	I^2C BUS Control Clock
IIC-BUS SDA	I^2C BUS Control Data
JK1-8P-OUT	SCART 8Pin Output Control Signal
KEY-1	Key Scan Input Signal 1
KEY-2	Key Scan Input Signal 2
LD-SW	Deck Mode Position Detector Signal
LINE-MUTE	Audio Mute Control Signal

Signal Name	Function
LM-FWD/REV	Loading Motor Control Signal
LP	LP
MOD-A	Modulator Audio Output Signal
N-A-PB	Normal Audio Playback
N-A-REC	Normal Audio Recording
OSCin	Clock Input for letter size
OSCout	Clock Output for letter size
OSD-V-IN	OSD Video Signal Input
OSD-V-OUT	OSD Video Signal Output
OSDVcc	OSDVcc
OSDVss	OSDVss
P-DOWN-L	Power Voltage Down Detector Signal
P-ON+15V	+15V at Power-On Signal
P-ON+44V	+44V at Power-On Signal
P-ON+5V	+5V at Power-On Signal
P-ON-H	Power On Signal at High
P80/C	P80/C Terminal
PB-H-OUT	Playback Signal Output at High
PG-DELAY	Video Head Switching Pulse Signal Adjusted Voltage
POW-SAF	P-ON Power Detection Input Signal
REC-SAF-SW	Recording Safety SW Detect (With Record tab="L"/With out Record tab="H")
REMOCON-IN	Remote Control Sensor
RESET	System Reset Signal (Reset=”L”)
RESET+5V	+5V at System Reset Signal
RF-SW	Video Head Switching Pulse
RGB-THROUGH	SCART 2 RGB Through Control Signal
S-REEL	Supply Reel Rotation Signal
SC2-IN	Input Signal from Pin 8 of SCART2
SECAM-C-IN	SECAM Chroma Signal Input
SECAM-FM-OUT	SECAM FM Signal Output
SECAM-H	SECAM Mode at High
SIF	Tuner Audio Intermediate Frequency Signal
ST-S	Tape Start Position Detector Signal
T-REEL	Take Up Reel Rotation Signal
TIMER+5V	+5V at Timer

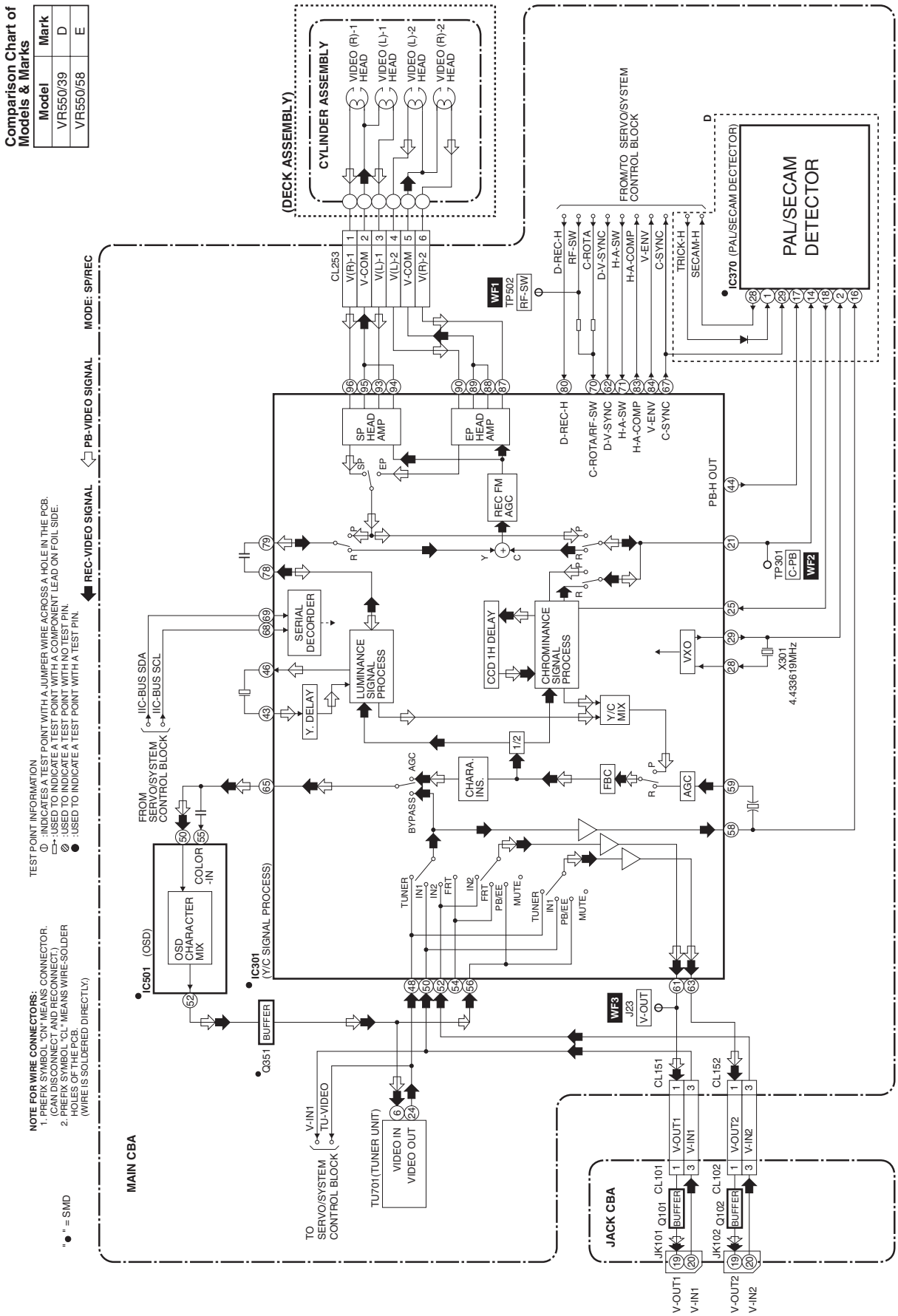
Signal Name	Function
TRICK-H	Special Playback = “H” in SECAM Mode
TU-AUDIO	Tuner Audio Input Signal
TU-VIDEO	Tuner Video Input Signal
V(L)	Video L Head
V(R)	Video R Head
V-COM	Video Head Common
V-ENV	Video Envelope Comparator Signal
V-IN	Video Signal Input
V-OUT	Video Signal Output
Vcc	Vcc
VIDEO	Video Signal
Vss	Vss(GND)
X-IN	Main Clock Input
X-OUT	Main Clock Input
XC-IN	Sub Clock
XC-OUT	Sub Clock

BLOCK DIAGRAMS

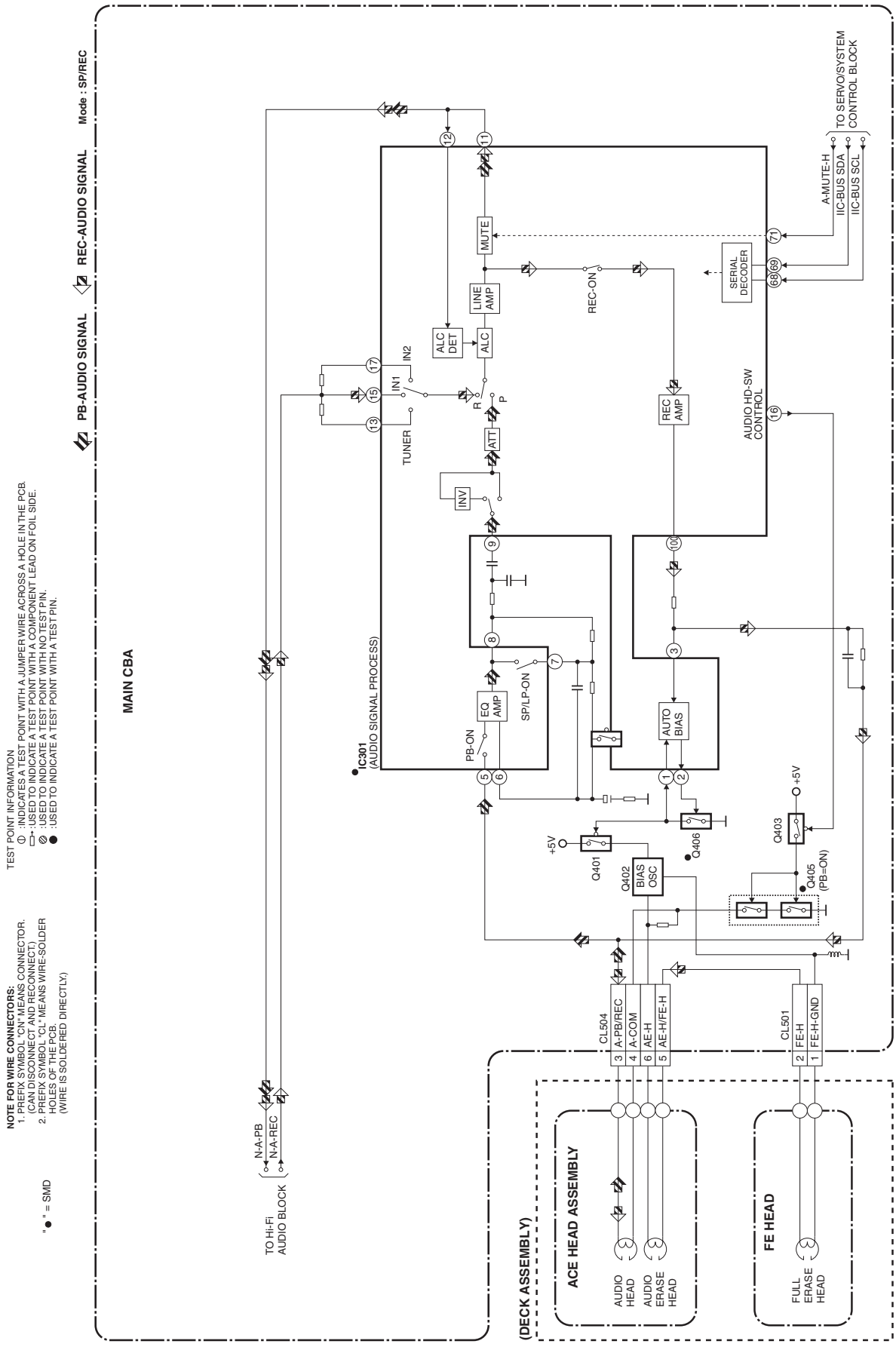
Servo/System Control Block Diagram



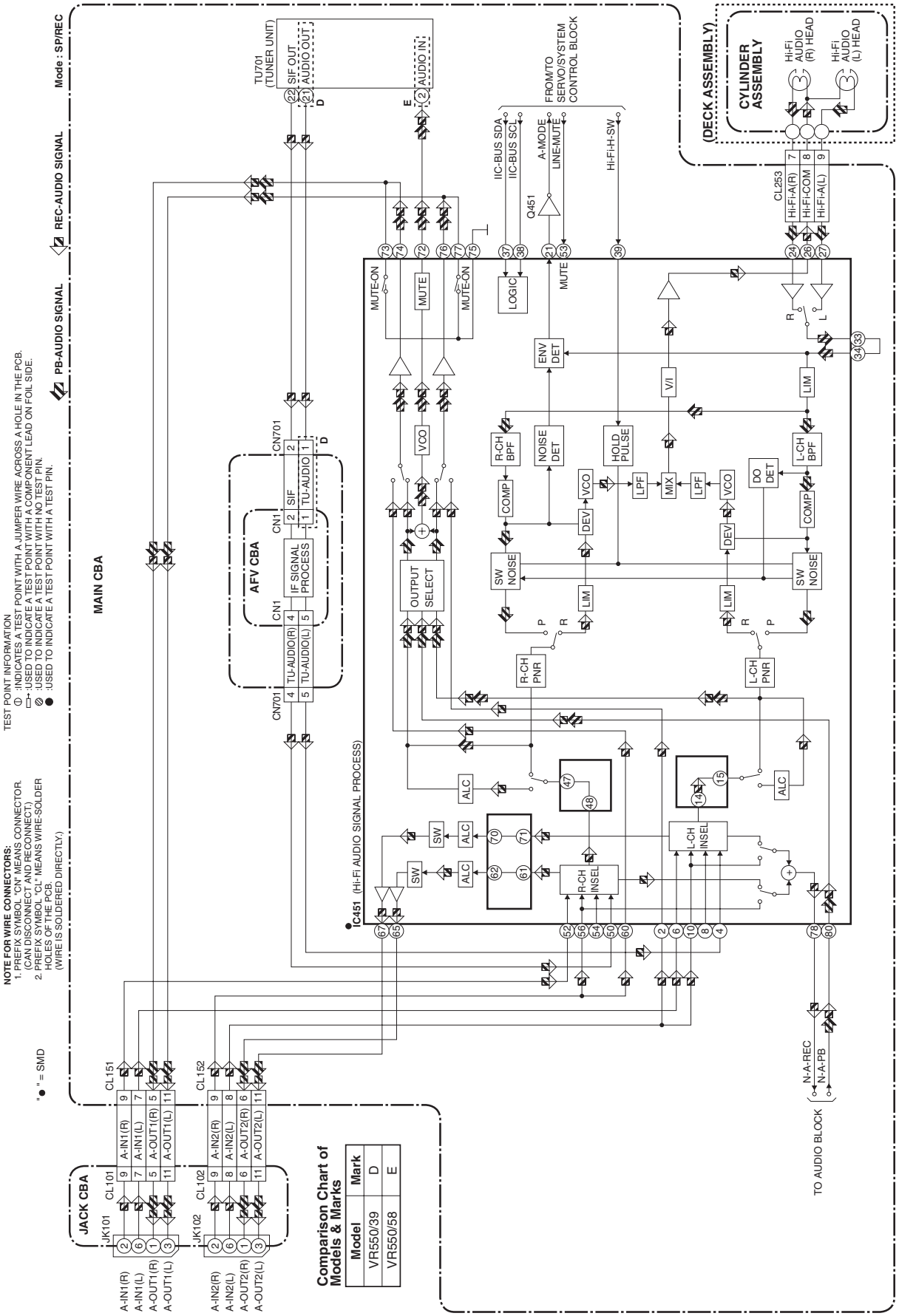
Video Block Diagram



Audio Block Diagram



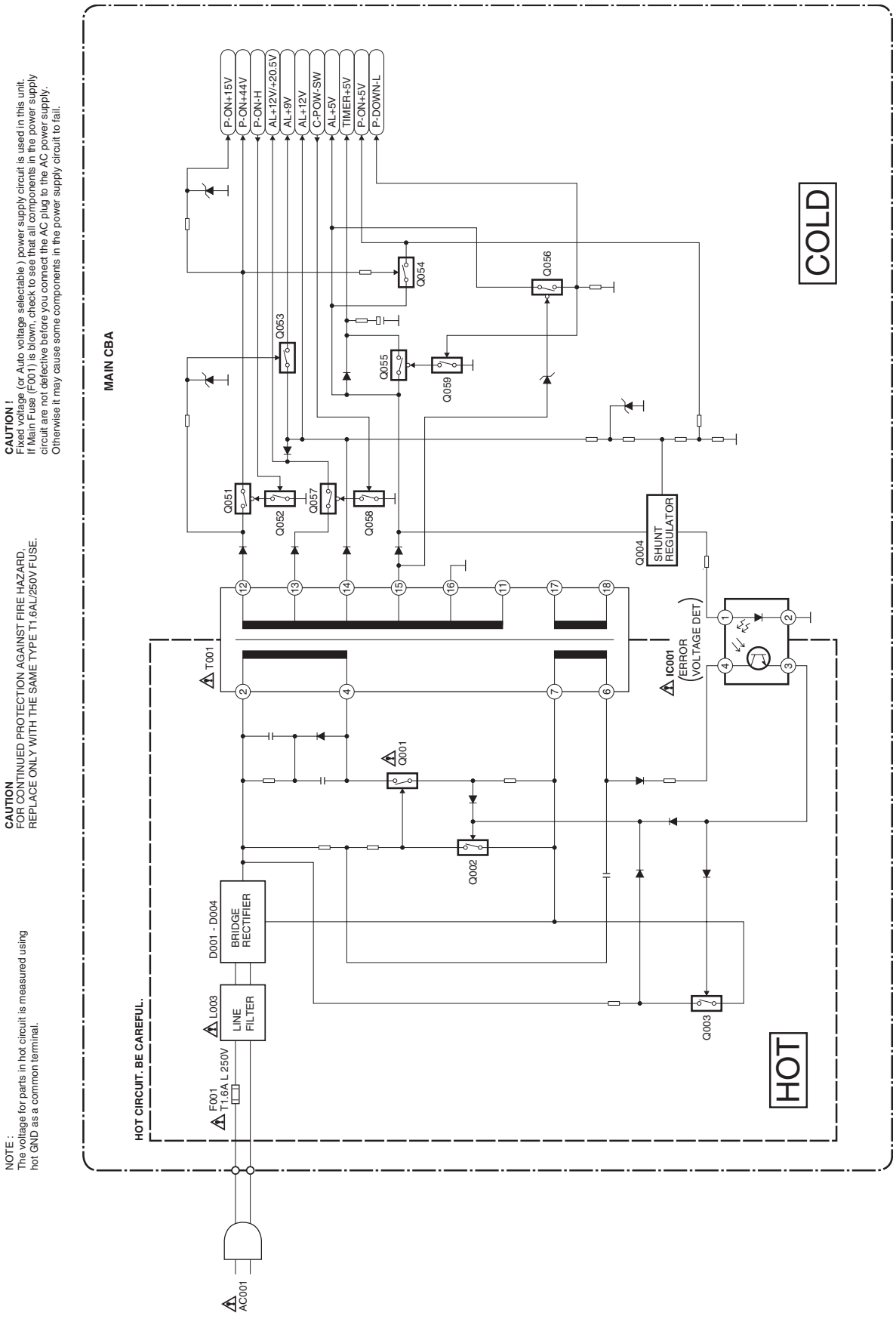
Hi-Fi Audio Block Diagram



Comparison Chart of Models & Marks

Model	Mark
VR550/39	D
VR550/58	E

Power Supply Block Diagram



[VR550/ (39, 58)]

MAIN 1/7 Schematic Diagram Parts Location Guide

Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		CAPACITORS		RESISTORS	
C501	B-1	C862	D-3	R522	E-4
C502	B-1	CONNECTORS		R523	B-4
C506	C-1	CL501	A-2	R524	B-4
C508	E-2	CL502	F-4	R525	B-3
C510	E-2	CL504	A-2	R526	A-2
C511	E-2	DIODES		R527	A-2
C512	E-2	D501	E-4	R528	B-1
C513	E-2	D502	A-1	R529	A-1
C514	E-2	D552	E-3	R530	E-1
C515	E-2	D553	E-2	R531	E-1
C516	E-2	ICS		R533	D-1
C517	E-4	IC501	C-3	R551	E-3
C518	E-4	IC503	A-4	R552	E-3
C519	B-4	COILS		R553	E-2
C520	A-3	L501	A-1	R555	C-1
C521	A-2	L851	D-3	R557	C-1
C522	A-2	TRANSISTORS		R558	C-1
C523	A-2	Q501	E-2	R615	D-1
C524	A-2	Q503	D-1	R621	A-3
C526	A-2	Q551	E-3	R622	A-3
C527	B-2	Q552	E-3	R851	D-3
C528	A-2	RESISTORS		R852	D-3
C530	B-2	R501	B-1	R853	D-4
C531	B-1	R502	B-2	SWITCH	
C532	A-3	R503	C-2	SW506	D-1
C533	A-3	R504	B-1	VARIABLE RESISTOR	
C535	E-1	R505	B-1	VR501	B-1
C563	E-4	R506	C-1	CRYSTAL OSCILLATORS	
C564	E-4	R509	D-1	X501	D-2
C567	F-4	R510	C-4	X502	D-2
C851	E-3	E511	E-2	MISCELLANEOUS	
C852	E-3	R513	E-2	PS503	E-1
C853	D-3	R514	E-2	RS501	B-2
C854	E-3	R516	D-2	TEST POINTS	
C855	D-3	R517	D-3	TP501	A-2
C856	D-4	R518	F-3	TP502	C-1
C858	D-4	R520	E-4		
C859	D-4	R521	E-4		

Main 1/7 Schematic Diagram

"●" = SMD

MODE: SP/REC — 1 (5.0) 2 (~) 3 (5.0 / (2.5)) — PLAY MODE / REC MODE

THE SAME VOLTAGE FOR BOTH PLAY & REC MODES.

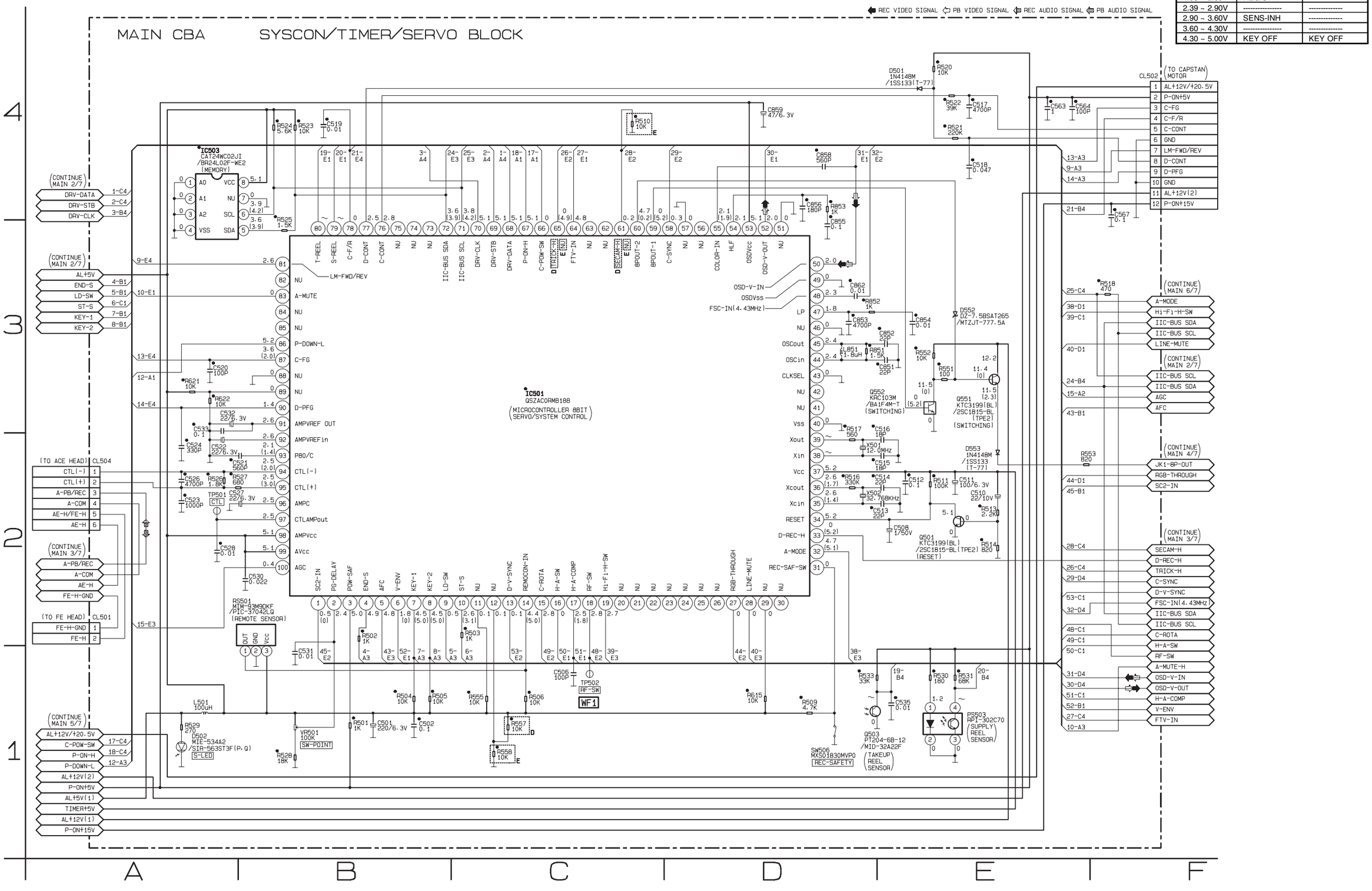
INDICATES THAT THE VOLTAGE IS NOT CONSISTENT HERE.

Comparison Chart of Models and Marks

MODEL	MARK
VR550/39	D
VR550/58	E

IC501 KEY VOLTAGE CHART

Pin No. / Voltage	KEY 1 (7 PIN)	KEY 2 (8 PIN)
0.00 ~ 0.51V	POWER	STOP/EJECT
0.51 ~ 0.92V	CH DOWN	REW
0.92 ~ 1.27V	CH UP	PLAY
1.27 ~ 1.61V	----------	FF
1.61 ~ 1.98V	----------	----------
1.98 ~ 2.39V	REC/OTR	----------
2.39 ~ 2.90V	----------	----------
2.90 ~ 3.60V	SENS-INH	----------
3.60 ~ 4.30V	----------	----------
4.30 ~ 5.00V	KEY OFF	KEY OFF



Main 2/7 & Sensor Schematic Diagrams

"●" = SMD

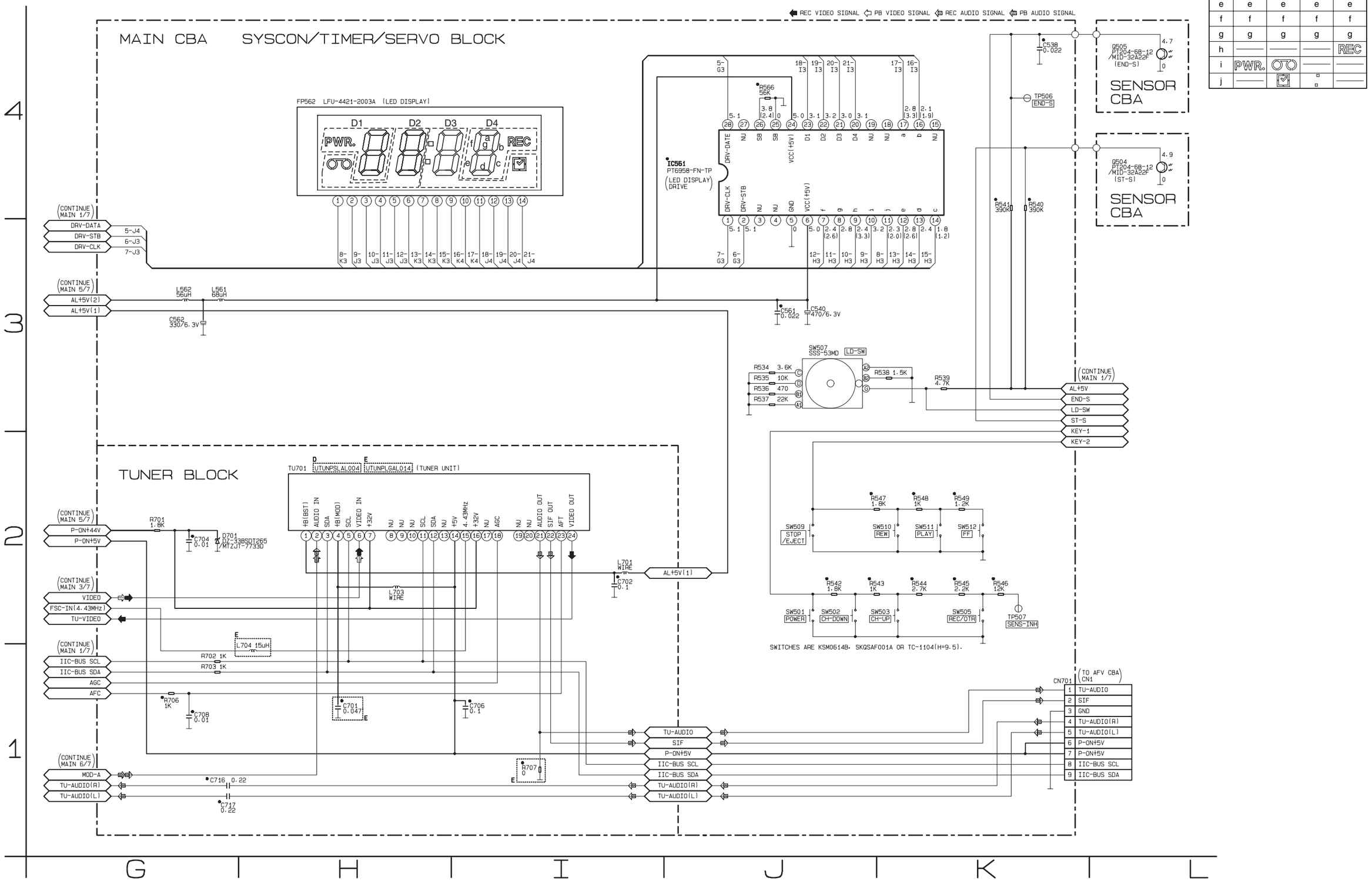
MODE: SP/REC

Comparison Chart of Models and Marks

MODEL	MARK
VR550/39	D
VR550/58	E

FP562 MATRIX CHART

	D1	D2	D3	D4
a	a	a	a	a
b	b	b	b	b
c	c	c	c	c
d	d	d	d	d
e	e	e	e	e
f	f	f	f	f
g	g	g	g	g
h				REC
i	PWR.			
j				



MAIN 2/7 Schematic Diagram Parts Location Guide

Ref No.	Position	Ref No.	Position
CAPACITORS		RESISTORS	
C538	K-4	R539	K-3
C540	J-3	R540	K-4
C561	J-3	R541	K-4
C562	G-3	R542	J-2
C701	H-2	R543	J-2
C702	I-2	R544	K-2
C704	G-2	R545	K-2
C706	H-1	R546	K-2
C708	G-1	R547	J-2
C716	G-1	R548	K-2
C717	G-1	R549	K-2
CONNECTORS		R566	J-4
CL505	K-2	R701	G-2
CN701	K-1	R702	G-1
DIODE		R703	G-1
D701	G-2	R706	G-1
IC		R707	I-1
IC561	J-4	SWITCHES	
COILS		SW501	J-2
L561	G-3	SW502	J-2
L562	G-3	SW503	K-2
L701	I-2	SW505	K-2
L703	H-2	SW507	J-3
L704	H-1	SW509	J-2
TRANSISTORS		SW510	K-2
Q504	L-4	SW511	K-2
Q505	L-4	SW512	K-2
RESISTORS		MISCELLANEOUS	
R534	J-3	FP562	H-4
R535	J-3	TU701	H-2
R536	J-3	TEST POINTS	
R537	J-3	TP506	K-4
R538	K-3	TP507	K-2

MAIN 3/7 Schematic Diagram Parts Location Guide

Ref No.	Position
CAPACITORS	
C251	N-3
C252	N-3
C253	N-3
C254	N-3
C302	P-1
C303	P-1
C304	P-2
C305	P-1
C307	P-2
C308	P-1
C309	P-1
C310	Q-2
C311	Q-2
C312	Q-2
C313	Q-2
C314	Q-3
C315	Q-3
C316	Q-3
C317	Q-3
C318	Q-3
C319	Q-3
C320	Q-3
C321	Q-3
C322	Q-3
C323	Q-3
C324	Q-3
C325	Q-4
C326	Q-4
C327	P-4
C330	P-4
C332	P-4
C333	P-4
C334	P-4
C335	P-4
C336	O-4
C337	O-4
C338	O-4
C339	O-4
C340	O-4
C341	O-4
C342	O-4
C343	O-4
C345	Q-3
C346	P-4

Ref No.	Position
CAPACITORS	
C347	O-4
C351	N-4
C352	M-4
C401	N-2
C402	N-1
C403	M-2
C404	M-1
C411	O-1
C412	O-2
C414	O-1
C415	O-1
C416	O-2
C417	O-1
C418	O-1
C419	O-1
C421	O-2
C422	O-1
C424	O-2
C425	O-1
C428	O-1
C430	P-1
C771	Q-2
C772	R-1
C773	R-2
C774	R-2
C775	Q-2
C776	Q-2
C777	Q-2
C778	Q-2
CONNECTOR	
CL253	M-3
DIODE	
D301	N-4
ICS	
IC301	N-2
IC771	Q-1
COILS	
L251	N-3
L301	O-4
L403	N-1
TRANSISTORS	
Q351	N-4
Q352	N-3
Q401	N-2

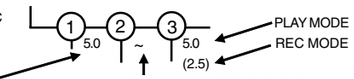
Ref No.	Position
TRANSISTORS	
Q402	N-1
Q403	N-1
Q405	M-1
Q406	N-1
Q771	R-1
Q772	R-1
RESISTORS	
R251	N-3
R252	N-3
R301	P-1
R302	P-1
R303	Q-2
R304	Q-2
R305	Q-2
R307	P-4
R308	P-4
R309	P-4
R310	O-4
R311	O-4
R312	N-4
R313	N-4
R315	O-4
R316	O-4
R317	O-4
R318	O-4
R319	N-4
R320	O-4
R321	Q-4
R323	Q-3
R324	N-3
R325	Q-3
R326	Q-3
R330	Q-3
R331	Q-2
R332	P-4
R334	Q-3
R351	N-4
R352	N-4
R355	N-4
R357	M-4
R358	N-4
R360	M-4
R361	N-3
R401	N-2

Ref No.	Position
RESISTORS	
R402	N-2
R403	N-2
R404	M-2
R407	M-1
R408	N-2
R409	N-2
R411	N-2
R412	O-2
R413	O-2
R414	O-1
R415	O-1
R416	O-1
R417	O-1
R418	N-1
R421	O-1
R422	O-1
R425	O-1
R426	O-1
R429	O-1
R430	O-1
R431	P-1
R771	Q-1
R772	Q-1
R773	Q-1
R774	Q-1
R775	Q-1
R776	R-1
R777	R-1
R778	Q-2
R779	Q-2
R780	Q-2
R781	Q-2
R782	R-2
R783	Q-2
R784	Q-2
R785	Q-2
R786	Q-2
R787	Q-1
CRYSTAL OSCILLATOR	
X301	P-2
TEST POINT	
TP301	M-3

Main 3/7 Schematic Diagram

"●" = SMD

MODE: SP/REC



Comparison Chart of Models and Marks

MODEL	MARK
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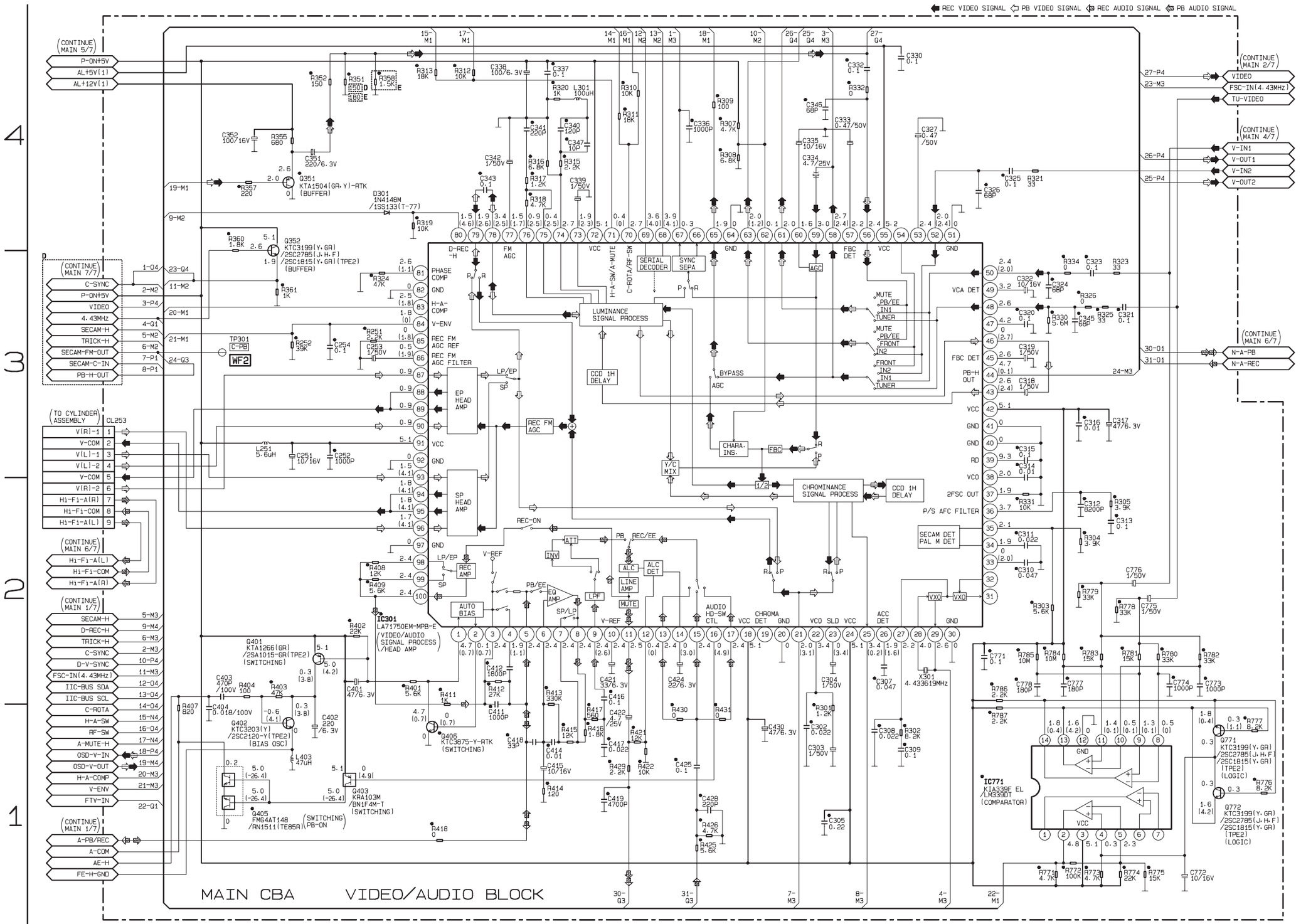
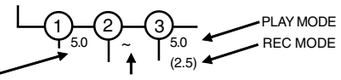
VR550/58	E



Main 4/7 & Jack Schematic Diagrams

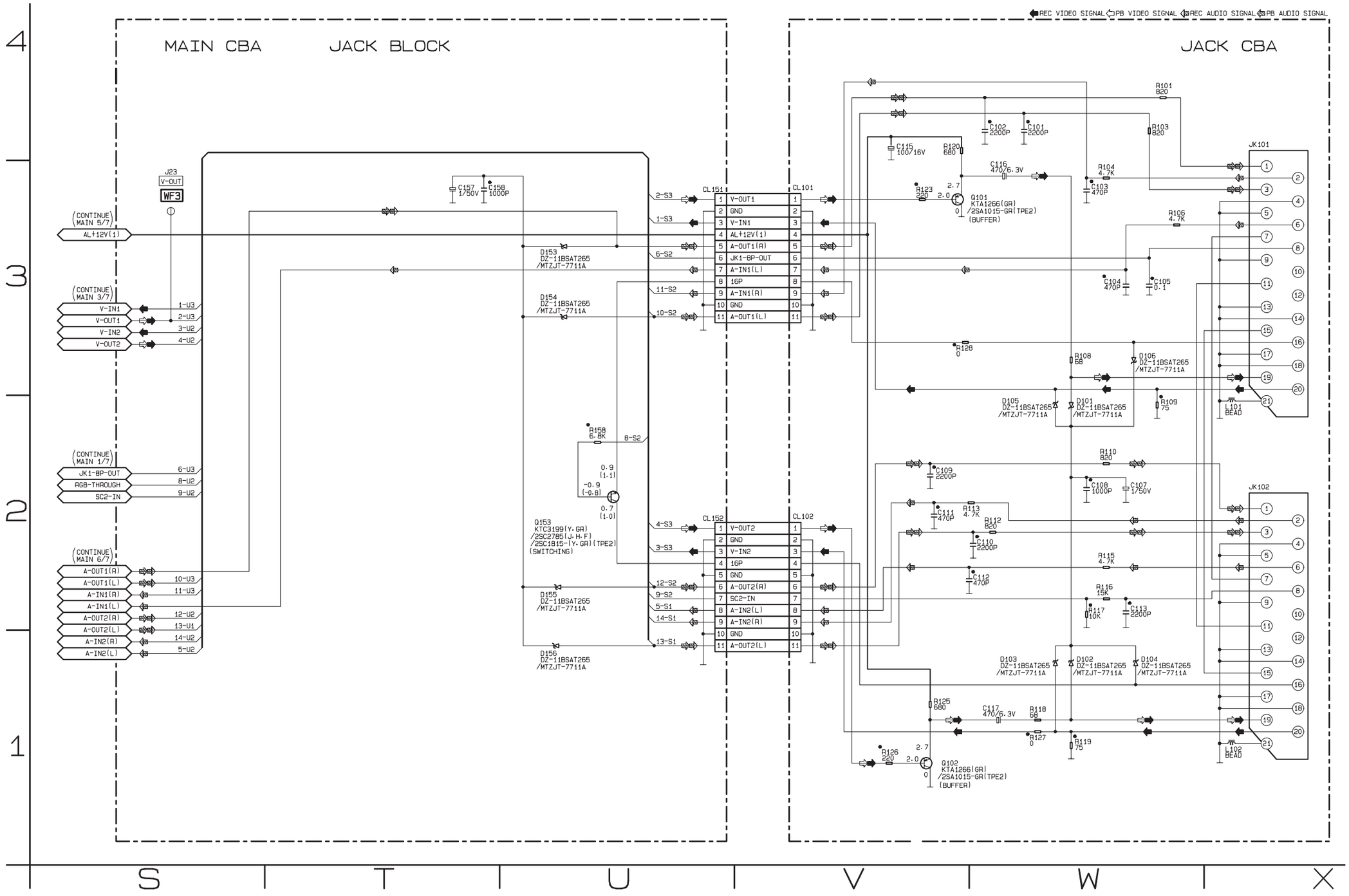
"●" = SMD

MODE: SP/REC



THE SAME VOLTAGE FOR BOTH PLAY & REC MODES.

INDICATES THAT THE VOLTAGE IS NOT CONSISTENT HERE.



MAIN 4/7 Schematic Diagram Parts Location Guide

Ref No.	Position
CAPACITORS	
C157	T-3
C158	U-3
CONNECTORS	
CL151	U-3
CL152	U-2
DIODES	
D153	U-3
D154	U-3
D155	U-2
D156	U-1
TRANSISTOR	
Q153	U-2
RESISTOR	
R158	U-2
TEST POINT	
J23	S-3

JACK Schematic Diagram Parts Location Guide

Ref No.	Position
CAPACITORS	
C101	W-4
C102	W-4
C103	W-3
C104	W-3
C105	W-3
C107	W-2
C108	W-2
C109	V-2
C110	W-2
C111	V-2
C112	W-2
C113	W-2
C115	V-4
C116	W-3
C117	W-1
CONNECTORS	
CL101	V-3
CL102	V-2
DIODES	
D101	W-2
D102	W-1
D103	W-1
D104	W-1
D105	W-2
D106	W-3
COILS	
L101	X-2
L102	X-1

Ref No.	Position
TRANSISTORS	
Q101	V-3
Q102	V-1
RESISTORS	
R101	W-4
R103	W-4
R104	W-3
R106	W-3
R108	W-3
R109	W-2
R110	W-2
R112	W-2
R113	V-2
R115	W-2
R116	W-2
R117	W-2
R118	W-1
R119	W-1
R120	V-4
R123	V-3
R125	V-1
R126	V-1
R127	W-1
R128	V-3
MISCELLANEOUS	
JK101	X-4
JK102	X-2

MAIN 5/7 Schematic Diagram Parts Location Guide

Ref No.	Position
CAPACITORS	
C002	Y-3
C003	Y-2
C004	Z-3
C005	Z-3
C006	Z-2
C007	Z-2
C008	Y-1
C010	Y-1
C011	Y-1
C012	AA-3
C014	AA-2
C015	CC-3
C017	AA-2
C018	AA-2
C020	AA-2
C021	AA-2
C025	AA-1
C026	BB-2
C053	BB-1
C056	BB-1
C057	BB-1
C060	BB-2
C061	CC-2
DIODES	
D001	Y-3
D002	Z-3
D003	Y-3
D004	Z-3
D005	Z-2
D006	Z-2
D007	Z-1
D008	Z-1
D009	Z-1
D011	AA-3
D012	AA-3
D013	AA-2
D014	AA-2
D015	AA-2
D018	Z-2
D019	AA-1
D021	Z-1

Ref No.	Position
DIODES	
D023	AA-1
D051	BB-2
D052	CC-3
D053	BB-2
D055	BB-2
D056	AA-2
D057	BB-2
D058	CC-2
IC	
IC001	Z-1
COILS	
J902	AA-1
L001	Y-3
L002	Y-3
L003	Y-3
L009	AA-2
L010	AA-2
L012	BB-2
TRANSISTORS	
Q001	Z-2
Q002	Z-2
Q003	Y-1
Q004	AA-1
Q051	BB-3
Q052	BB-3
Q053	BB-2
Q054	CC-2
Q055	BB-2
Q056	BB-1
Q057	BB-3
Q058	CC-3
Q059	BB-1
RESISTORS	
R001	Y-2
R002	Z-3
R003	Z-3
R004	Z-3
R005	Z-2
R006	Z-2
R007	Z-2
R008	Y-2

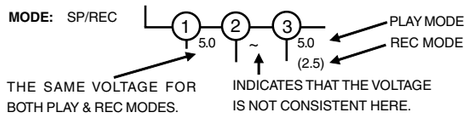
Ref No.	Position
RESISTORS	
R009	Z-1
R011	Y-1
R012	Y-1
R013	Z-1
R014	Y-1
R015	Z-1
R016	Z-1
R017	AA-3
R018	AA-2
R021	AA-1
R022	AA-1
R023	AA-1
R024	AA-1
R025	AA-1
R026	AA-2
R027	Z-1
R028	Z-2
R030	AA-1
R031	AA-1
R032	AA-1
R053	CC-2
R054	BB-2
R058	BB-2
R060	BB-1
R061	BB-1
R062	BB-2
R063	BB-2
R064	BB-2
R065	BB-2
R066	BB-3
R067	BB-3
R068	BB-3
R071	CC-3
R073	BB-1
MISCELLANEOUS	
AC001	Y-3
F001	Y-3
SA001	Y-3
T001	Z-3

Main 5/7 Schematic Diagram

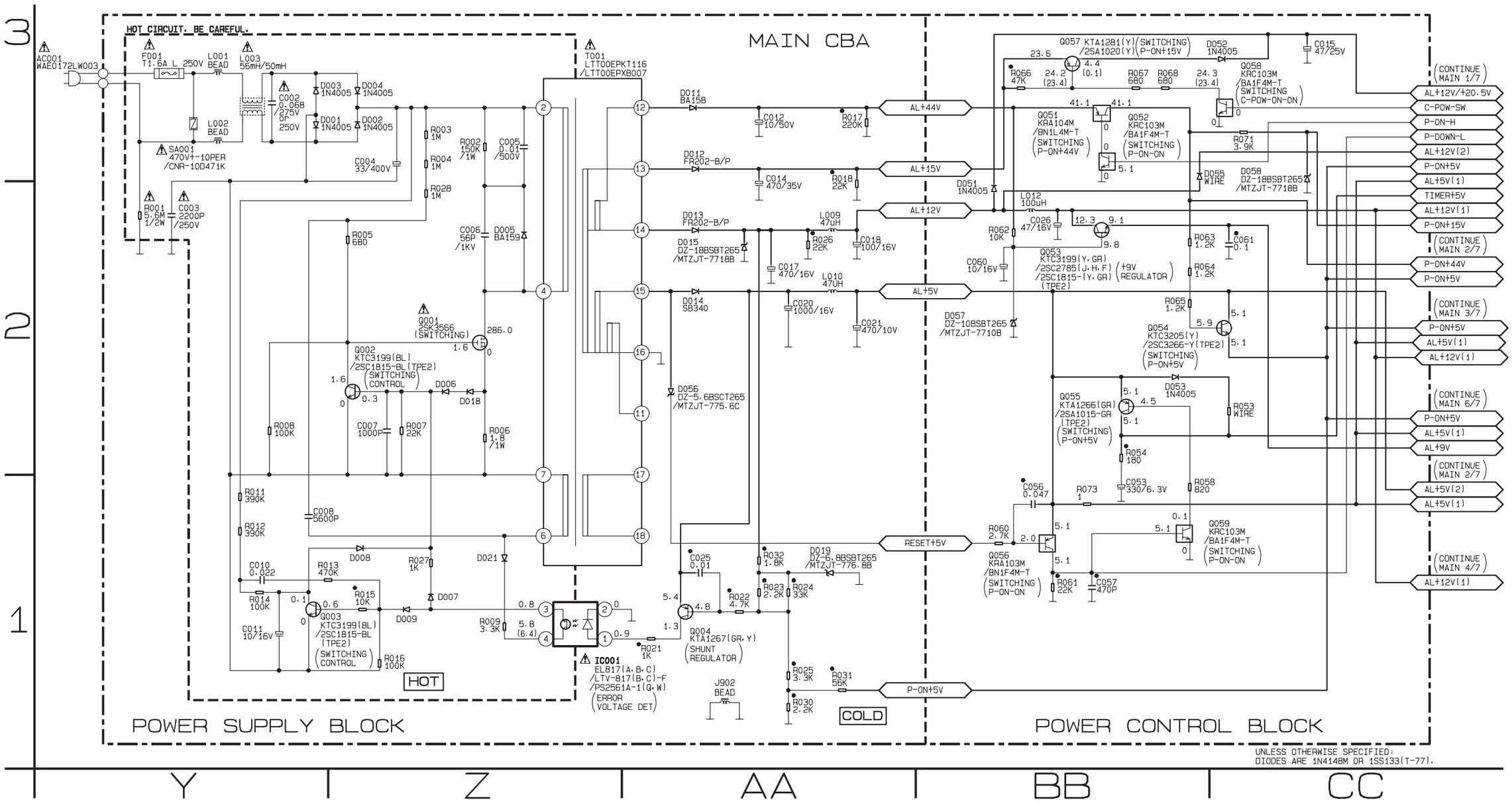
CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.

NOTE :
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

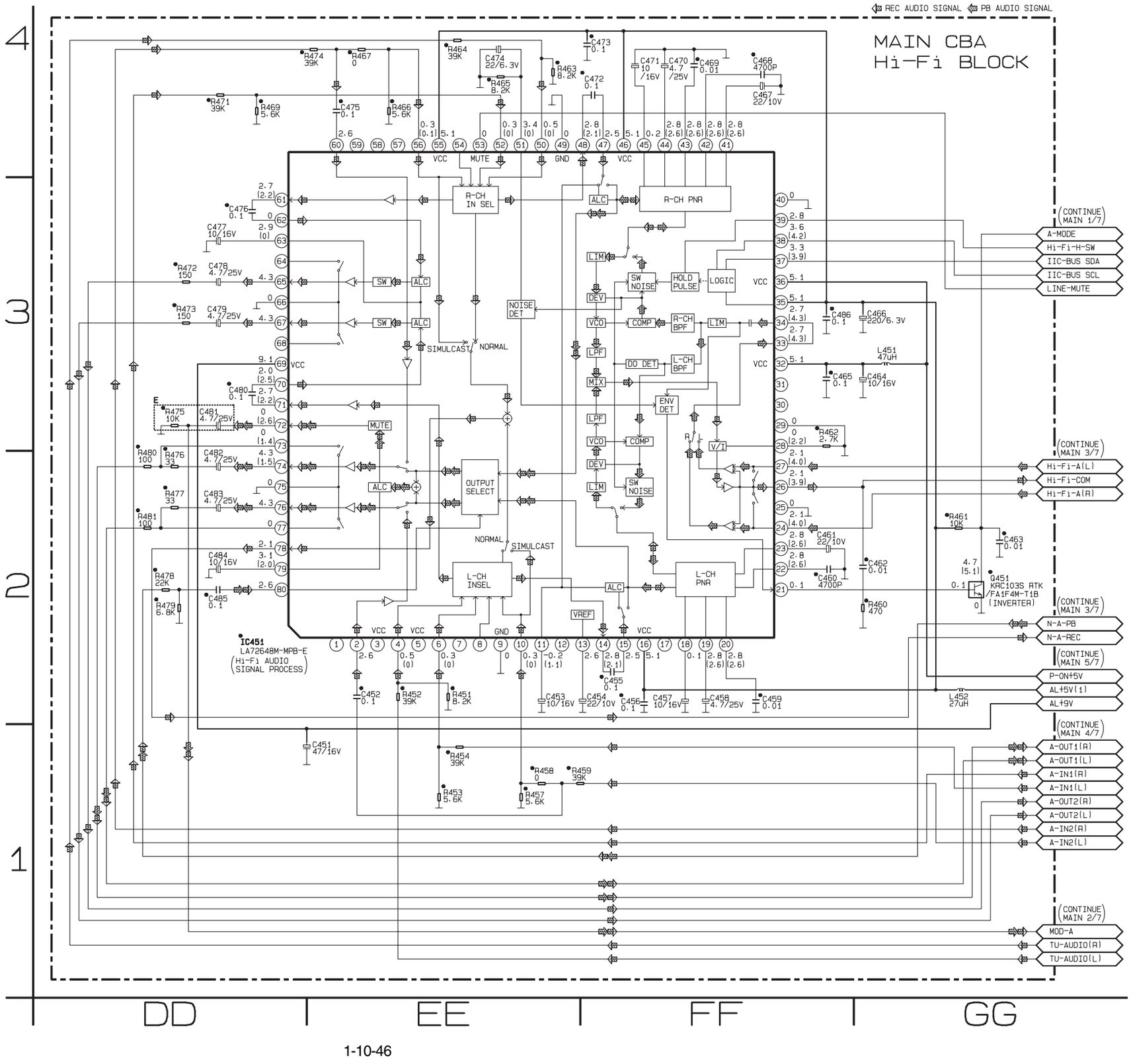
CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.



"●" = SMD

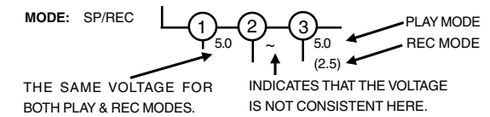


Main 6/7 Schematic Diagram



Comparison Chart of Models and Marks

MODEL	MARK
VR550/39	D
VR550/58	E



"●" = SMD

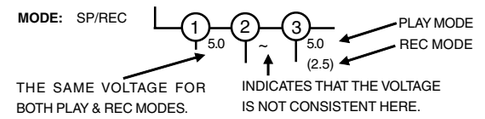
MAIN 6/7 Schematic Diagram Parts Location Guide

Ref No.	Position	Ref No.	Position
CAPACITORS		IC	
C451	EE-1	IC451	DD-2
C452	EE-2	COILS	
C453	EE-2	L451	GG-3
C454	FF-2	L452	GG-2
C455	FF-2	TRANSISTOR	
C456	FF-2	Q451	GG-2
C457	FF-2	RESISTORS	
C458	FF-2	R451	EE-2
C459	FF-2	R452	EE-2
C460	FF-2	R453	EE-1
C461	FF-2	R454	EE-1
C462	GG-2	R457	EE-1
C463	GG-2	R458	EE-1
C464	GG-3	R459	EE-1
C465	FF-3	R460	GG-2
C466	GG-3	R461	GG-2
C467	FF-4	R462	FF-3
C468	FF-4	R463	EE-4
C469	FF-4	R464	EE-4
C470	FF-4	R465	EE-4
C471	FF-4	R466	EE-4
C472	FF-4	R467	EE-4
C473	FF-4	R469	DD-4
C474	EE-4	R471	DD-4
C475	EE-4	R472	DD-3
C476	DD-3	R473	DD-3
C477	DD-3	R474	EE-4
C478	DD-3	R475	DD-3
C479	DD-3	R476	DD-2
C480	DD-3	R477	DD-2
C481	DD-3	R478	DD-2
C482	DD-2	R479	DD-2
C483	DD-2	R480	DD-2
C484	DD-2	R481	DD-2
C485	DD-2		
C486	FF-3		

Main 7/7 Schematic Diagram (D)

Comparison Chart of Models and Marks

MODEL	MARK
VR550/39	D
VR550/58	E



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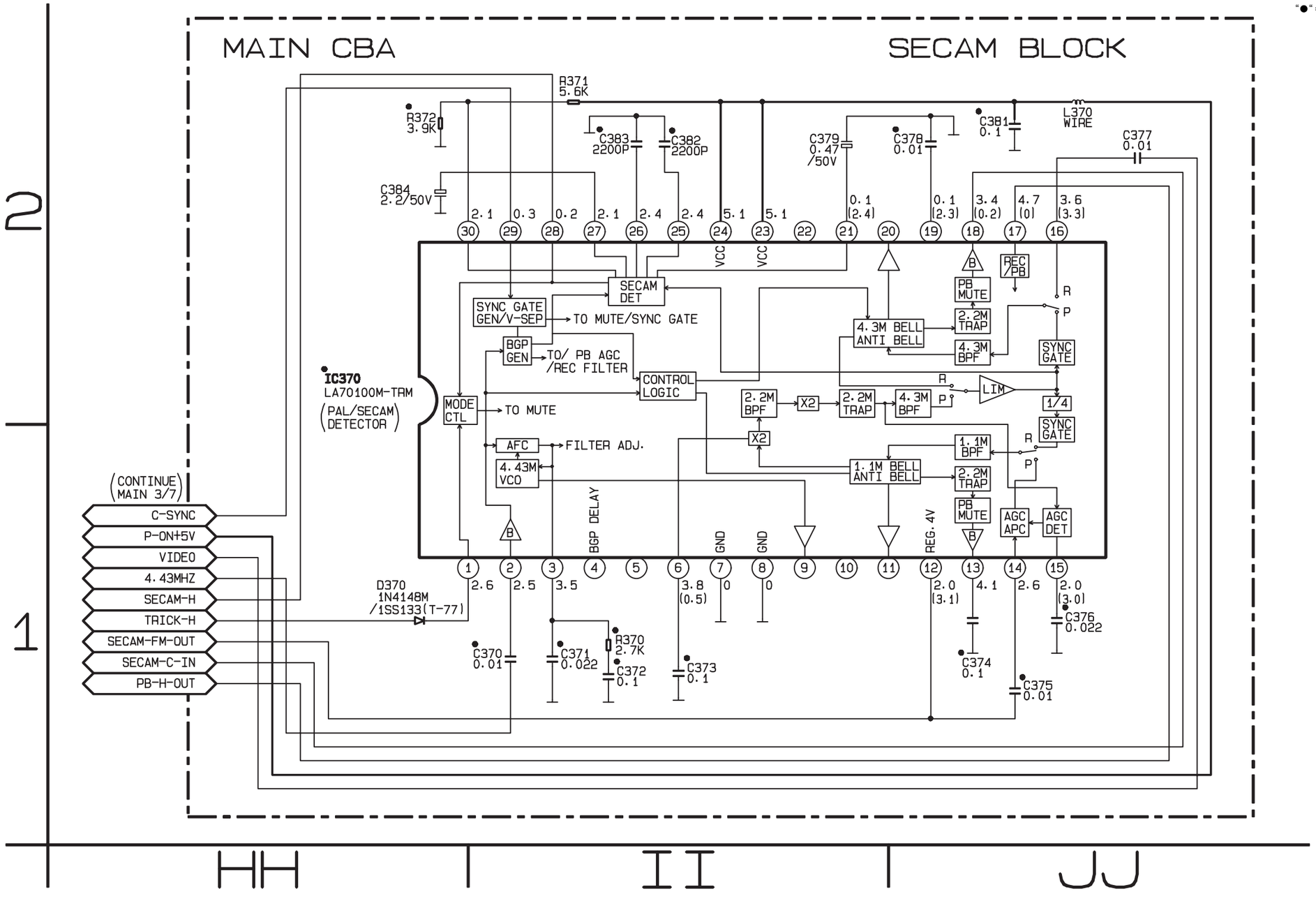


MAIN 7/7 Schematic Diagram
Parts Location Guide

Ref No.	Position
CAPACITORS	
C370	II-1
C371	II-1
C372	II-1
C373	II-1
C374	JJ-1
C375	JJ-1
C376	JJ-1
C377	JJ-2
C378	JJ-2
C379	II-2
C381	JJ-2
C382	II-2
C383	II-2
C384	HH-2
DIODE	
D370	HH-1
IC	
IC370	HH-2
COIL	
L370	JJ-2
RESISTORS	
R370	II-1
R371	II-2
R372	HH-2

Main CBA Top View

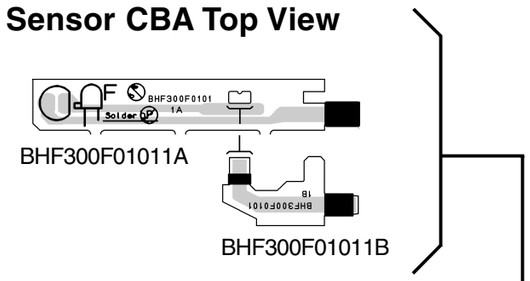
CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.

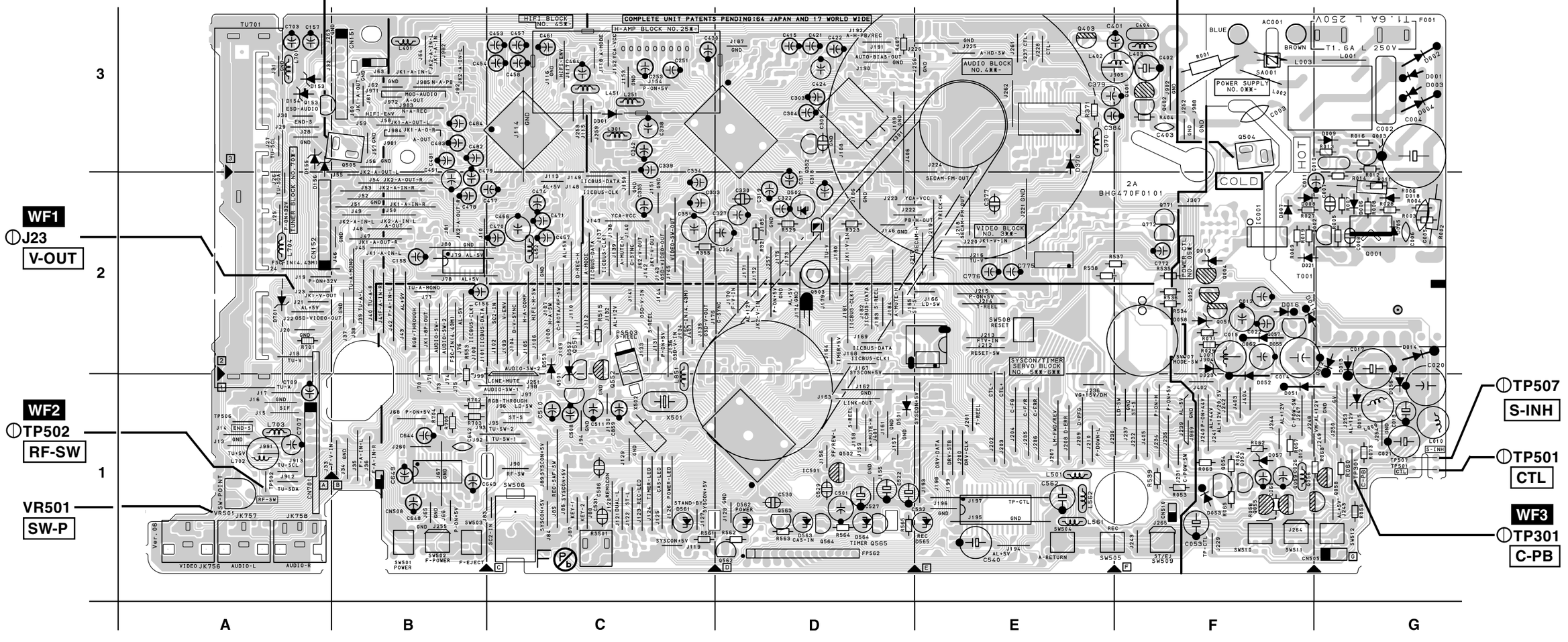
NOTE :
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

BECAUSE A HOT CHASSIS GROUND IS PRESENT IN THE POWER SUPPLY CIRCUIT , AN ISOLATION TRANSFORMER MUST BE USED. ALSO , IN ORDER TO HAVE THE ABILITY TO INCREASE THE INPUT SLOWLY , WHEN TROUBLESHOOTING THIS TYPE POWER SUPPLY CIRCUIT , A VARIABLE ISOLATION TRANSFORMER IS REQUIRED.

Sensor CBA Top View





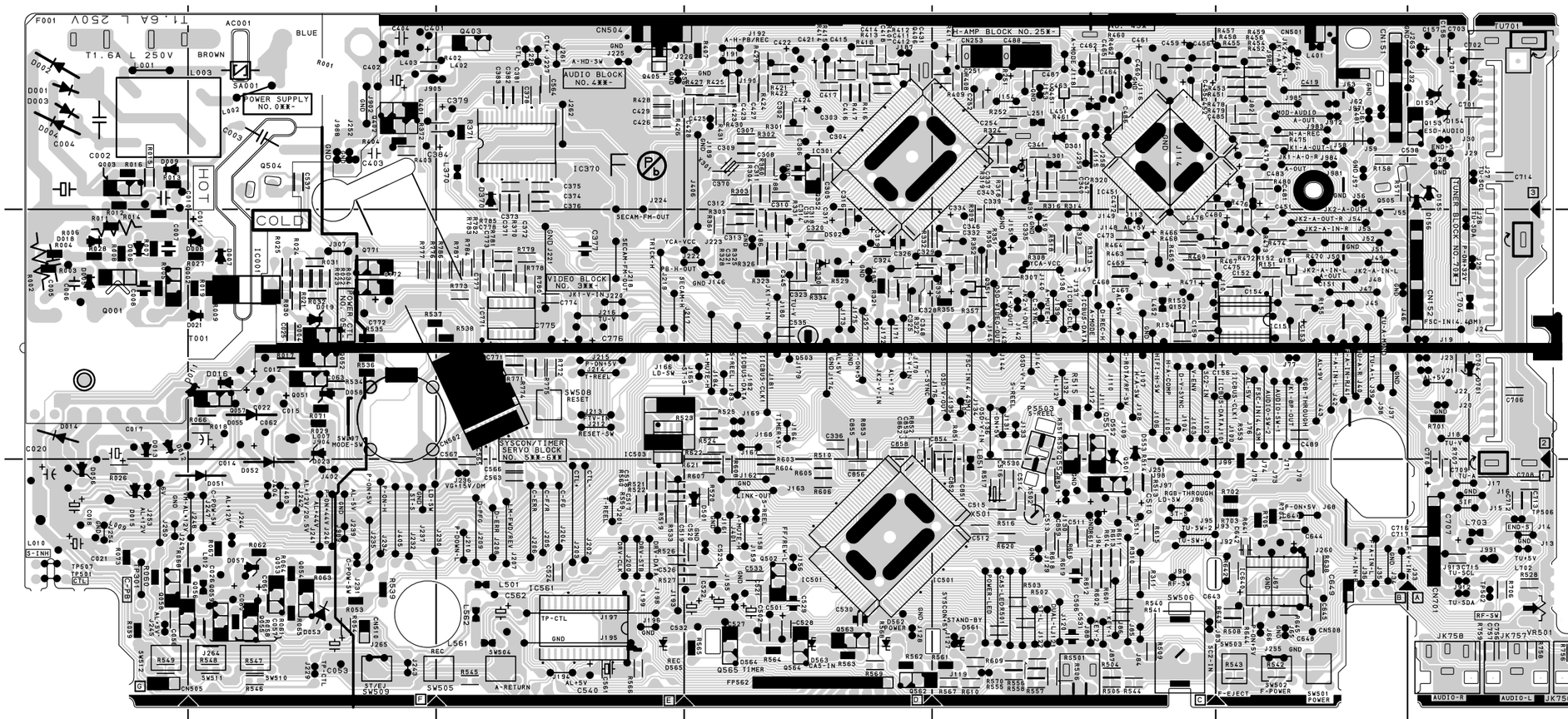
Main CBA Bottom View

CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.

NOTE :
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

BECAUSE A HOT CHASSIS GROUND IS PRESENT IN THE POWER SUPPLY CIRCUIT , AN ISOLATION TRANSFORMER MUST BE USED. ALSO , IN ORDER TO HAVE THE ABILITY TO INCREASE THE INPUT SLOWLY , WHEN TROUBLESHOOTING THIS TYPE POWER SUPPLY CIRCUIT , A VARIABLE ISOLATION TRANSFORMER IS REQUIRED.



Main CBA Parts Location Guide

Ref No.	Position
CAPACITORS	
C002	G-3
C003	F-3
C004	G-3
C005	G-2
C006	G-2
C007	G-2
C008	G-2
C010	G-3
C011	F-2
C012	F-2
C014	F-1
C015	F-2
C017	G-2
C018	G-1
C020	G-2
C021	G-1
C025	F-2
C026	F-1
C053	F-1
C056	G-1
C057	G-1
C060	F-1
C061	F-1
C157	A-3
C158	A-3
C251	C-3
C252	C-3
C253	C-3
C254	C-3
C302	D-3
C303	D-3
C304	D-3
C305	D-3
C307	D-3
C308	D-3
C309	D-3
C310	D-3
C311	D-3
C312	D-3
C313	D-2
C314	D-2
C315	D-2
C316	D-3
C317	D-2
C318	D-2
C319	D-2
C320	D-2
C321	D-2
C322	D-2
C323	D-2
C324	D-2
C325	D-2
C326	D-2
C327	D-2
C330	D-2
C332	C-2
C333	C-2
C334	C-3
C335	C-2
C336	D-2
C337	C-3
C338	C-3

Ref No.	Position
CAPACITORS	
C339	C-3
C340	C-3
C341	C-3
C342	C-3
C343	C-3
C345	D-2
C346	C-2
C347	C-3
C351	C-2
C352	D-2
C370	D-3
C371	E-2
C372	E-2
C373	E-2
C374	E-3
C375	E-3
C376	E-3
C377	E-2
C378	E-3
C379	E-3
C381	E-3
C382	E-3
C383	E-3
C384	E-3
C401	E-3
C402	F-3
C403	F-3
C404	F-3
C411	D-3
C412	D-3
C414	D-3
C415	D-3
C416	D-3
C417	D-3
C418	D-3
C419	B-3
C421	D-3
C422	D-3
C424	D-3
C425	E-3
C428	D-3
C430	C-3
C451	B-2
C452	C-3
C453	C-3
C454	C-3
C455	C-3
C456	C-3
C457	C-3
C458	C-3
C459	C-3
C460	C-3
C461	C-3
C462	C-3
C463	C-3
C464	C-3
C465	C-3
C466	C-2
C467	C-2
C468	C-2
C469	C-2
C470	C-2

Ref No.	Position
CAPACITORS	
C471	C-2
C472	C-3
C473	C-2
C474	C-2
C475	B-2
C476	C-2
C477	B-2
C478	B-2
C479	B-2
C480	C-2
C481	B-3
C482	B-3
C483	B-3
C484	B-3
C485	C-3
C486	C-3
C501	D-1
C502	D-1
C506	C-1
C508	C-1
C510	C-1
C511	C-1
C512	C-1
C513	C-1
C514	C-1
C515	C-1
C516	C-1
C517	E-1
C518	E-1
C519	E-1
C520	D-1
C521	D-1
C522	D-1
C523	D-1
C524	D-1
C526	E-1
C527	D-1
C528	D-1
C530	D-1
C531	C-1
C532	E-1
C533	D-1
C535	D-2
C538	B-3
C540	E-1
C561	E-1
C562	E-1
C563	E-1
C564	E-3
C567	E-2
C701	A-3
C702	A-3
C704	A-2
C706	A-2
C708	A-1
C716	A-1
C717	A-1
C771	E-2
C772	F-2
C773	E-2
C774	E-2
C775	E-2

Ref No.	Position
CAPACITORS	
C776	E-2
C777	E-2
C778	E-2
C851	C-1
C852	C-1
C853	D-2
C854	C-2
C855	D-2
C856	D-1
C858	D-2
C859	C-1
C862	D-2
CONNECTORS	
CL151	B-3
CL152	A-2
CL253	C-3
CL501	B-3
CL502	E-2
CL504	E-3
CL505	G-1
CN701	A-1
DIODES	
D001	G-3
D002	G-3
D003	G-3
D004	G-3
D005	G-2
D006	G-2
D007	F-2
D008	F-2
D009	G-3
D011	F-2
D012	G-2
D013	G-2
D014	G-2
D015	G-1
D018	G-2
D019	F-2
D021	F-2
D023	F-2
D051	F-1
D052	F-1
D053	F-1
D055	F-2
D056	G-2
D057	F-1
D058	F-2
D153	A-3
D154	A-3
D155	A-3
D156	A-2
D301	C-3
D370	E-3
D501	D-1
D502	D-2
D552	C-2
D553	C-2
D701	A-2
ICS	
IC001	F-2
IC301	D-3
IC370	E-3

Ref No.	Position
ICS	
IC451	C-3
IC501	D-1
IC503	E-2
IC561	E-1
IC771	E-2
COILS	
J902	F-3
L001	G-3
L002	F-3
L003	F-3
L009	G-1
L010	G-1
L012	F-1
L251	C-3
L301	C-3
L370	E-3
L403	F-3
L451	C-3
L452	C-2
L501	E-1
L561	E-1
L562	E-1
L701	A-3
L703	A-1
L704	A-2
L851	C-1
TRANSISTORS	
Q001	G-2
Q002	G-2
Q003	G-2
Q004	F-2
Q051	F-2
Q052	F-2
Q053	F-1
Q054	F-1
Q055	F-1
Q056	G-1
Q057	F-2
Q058	G-1
Q059	F-1
Q153	A-3
Q351	C-2
Q352	D-3
Q401	F-3
Q402	F-3
Q403	E-3
Q405	E-3
Q406	D-3
Q451	C-3
Q501	C-1
Q503	D-2
Q504	F-3
Q505	B-3
Q551	C-2
Q552	C-1
Q771	F-2
Q772	F-2
RESISTORS	
R001	F-3
R002	G-2
R003	G-2
R004	G-2

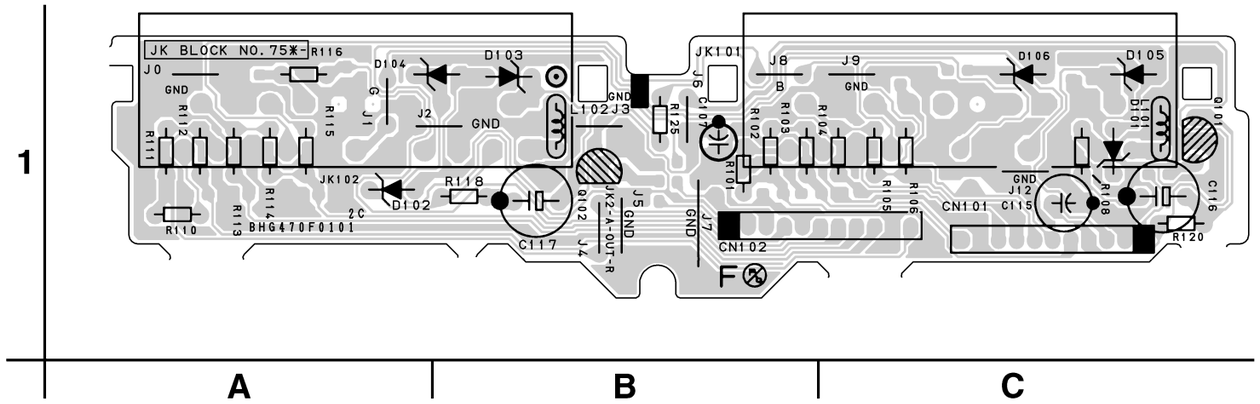
Ref No.	Position
RESISTORS	
R005	G-2
R006	G-2
R007	G-2
R008	G-2
R009	F-2
R011	G-2
R012	G-3
R013	G-3
R014	G-2
R015	G-3
R016	G-3
R017	F-2
R018	F-2
R021	F-2
R022	F-2
R023	F-2
R024	F-2
R025	F-2
R026	G-1
R027	F-2
R028	G-2
R030	F-2
R031	F-2
R032	F-2
R053	F-1
R054	F-1
R058	F-1
R060	G-1
R061	F-1
R062	F-1
R063	F-1
R064	F-1
R065	F-1
R066	F-2
R067	F-1
R068	F-1
R071	F-2
R073	G-1
R158	B-3
R251	C-3
R252	C-3
R301	D-3
R302	D-3
R303	D-3
R304	D-3
R305	D-2
R307	C-2
R308	C-2
R309	C-3
R310	C-1
R311	C-1
R312	C-2
R313	C-2
R315	C-3
R316	C-3
R317	C-3
R318	C-3
R319	C-3
R320	C-3
R321	D-2
R323	D-2
R324	C-3

Ref No.	Position
RESISTORS	
R325	D-2
R326	D-2
R330	D-2
R331	D-2
R332	D-2
R334	D-2
R351	C-2
R352	C-2
R355	C-2
R357	C-2
R358	C-2
R360	D-3
R361	D-2
R370	E-2
R371	E-3
R372	F-3
R401	D-3
R402	F-3
R403	F-3
R404	F-3
R407	D-3
R408	C-3
R409	C-3
R411	C-3
R412	D-3
R413	D-3
R414	D-3
R415	D-3
R416	D-3
R417	D-3
R418	D-3
R421	D-3
R422	D-3
R425	E-3
R426	E-3
R429	D-3
R430	D-3
R431	D-3
R451	C-3
R452	B-3
R453	C-3
R454	B-3
R457	B-3
R458	B-3
R459	B-3
R460	C-3
R461	C-3
R462	C-3
R463	C-2
R464	C-2
R465	C-2
R466	C-2
R467	B-2
R469	C-2
R471	C-2
R472	B-2
R473	B-2
R474	B-2
R475	B-3
R476	B-3
R477	B-3
R478	C-3

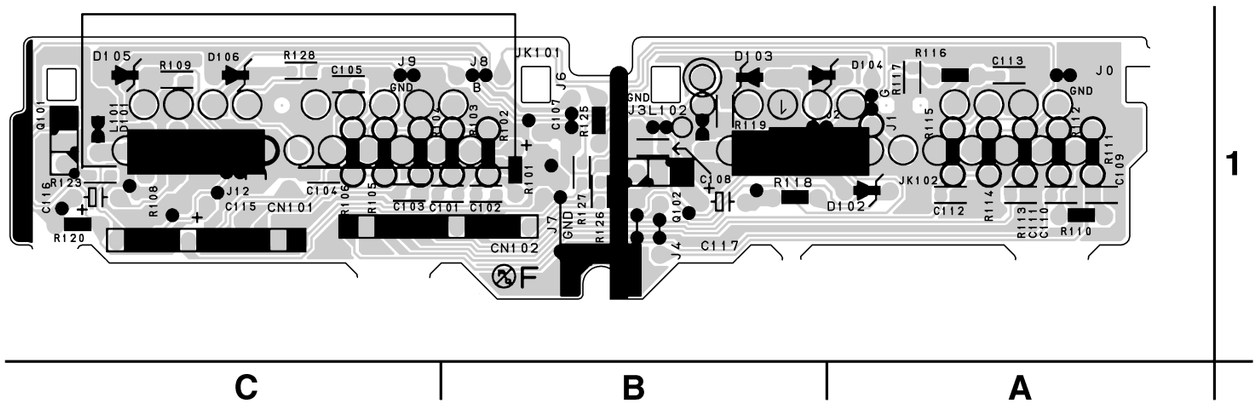
Ref No.	Position
RESISTORS	
R479	C-3
R480	B-3
R481	B-3
R501	C-1
R502	C-1
R503	C-1
R504	C-1
R505	C-1
R506	C-1
R509	C-1
R510	D-2
E511	C-1
R513	C-1
R514	C-1
R516	C-1
R517	C-1
R518	C-2
R520	E-1
R521	E-1
R522	E-1
R523	D-2
R524	E-2
R525	D-2
R526	E-1
R527	E-1
R528	A-1
R529	D-2
R530	C-2
R531	C-1
R533	E-1
R534	F-2
R535	F-2
R536	F-2
R537	F-2
R538	E-2
R539	F-1
R540	C-1
R541	C-1
R542	B-1
R543	B-1
R544	C-1
R545	E-1
R546	F-1
R547	F-1
R548	F-1
R549	G-1
R551	C-2
R552	C-2
R553	B-2
R555	C-1
R557	C-1
R558	C-1
R566	E-1
R615	C-1
R621	D-1
R622	D-2
R701	A-2
R702	B-1
R703	B-1
R706	A-1
R707	A-2
R771	E-2

Ref No.	Position
RESISTORS	
R772	E-2
R773	E-2
R774	E-2
R775	E-2
R776	F-2
R777	F-2
R778	E-2
R779	E-2
R780	E-2
R781	E-2
R782	E-2
R783	E-2
R784	E-2
R785	E-2
R786	E-2
R787	E-2
R851	C-2
R852	D-2
R853	D-2
SWITCHES	
SW501	B-1
SW502	B-1
SW503	B-1
SW505	E-1
SW506	C-1
SW507	F-2
SW509	F-1
SW510	F-1
SW511	F-1
SW512	G-1
VARIABLE RESISTOR	
VR501	A-1
CRYSTAL OSCILLATORS	
X301	D-3
X501	C-1
X502	C-1
MISCELLANEOUS	
AC001	F-3
F001	G-3
FP562	D-1
PS503	C-2
RS501	C-1
SA001	F-3
T001	F-2
TU701	A-3
TEST POINTS	
J23	A-2
TP301	G-1
TP501	G-1
TP502	A-1
TP506	A-1
TP507	G-1

Jack CBA Top View



Jack CBA Bottom View



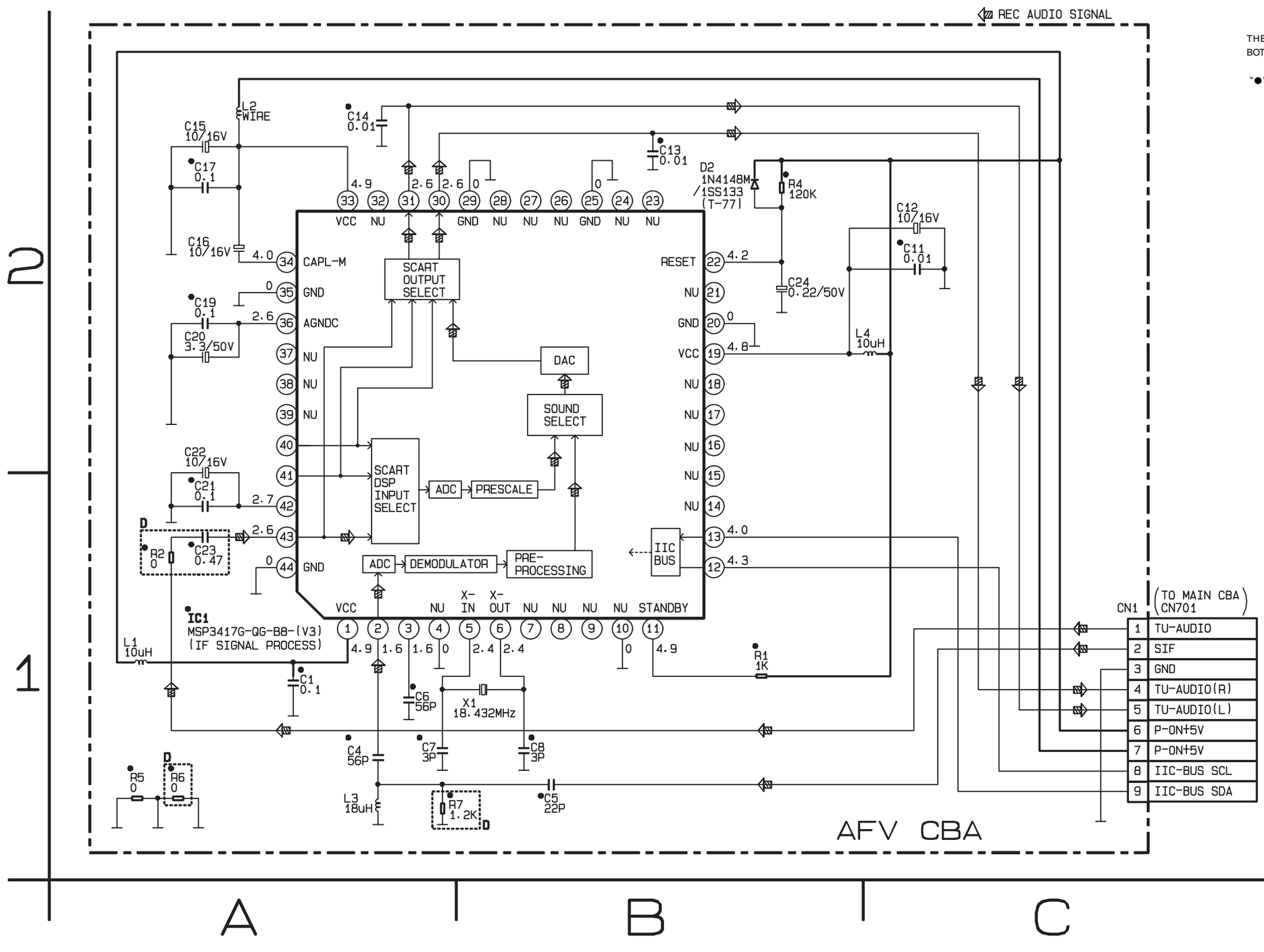
Jack CBA Parts Location Guide

Ref No.	Position	Ref No.	Position
CAPACITORS		TRANSISTORS	
C101	B-1	Q101	C-1
C102	B-1	Q102	B-1
C103	C-1	RESISTORS	
C104	C-1	R101	B-1
C105	C-1	R103	B-1
C107	B-1	R104	B-1
C108	B-1	R106	C-1
C109	A-1	R108	C-1
C110	A-1	R109	C-1
C111	A-1	R110	A-1
C112	A-1	R112	A-1
C113	A-1	R113	A-1
C115	C-1	R115	A-1
C116	C-1	R116	A-1
C117	B-1	R117	A-1
CONNECTORS		R118	B-1
CL101	C-1	R119	B-1
CL102	B-1	R120	C-1
DIODES		R123	C-1
D101	C-1	R125	B-1
D102	A-1	R126	B-1
D103	B-1	R127	B-1
D104	A-1	R128	C-1
D105	C-1	MISCELLANEOUS	
D106	C-1	JK101	B-1
COILS		JK102	A-1
L101	C-1		
L102	B-1		

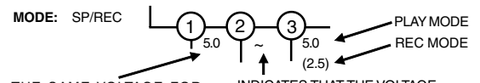
AFV Schematic Diagram

Comparison Chart of Models and Marks

MODEL	MARK
VR550/39	D
VR550/58	E



MODE: SP/REC

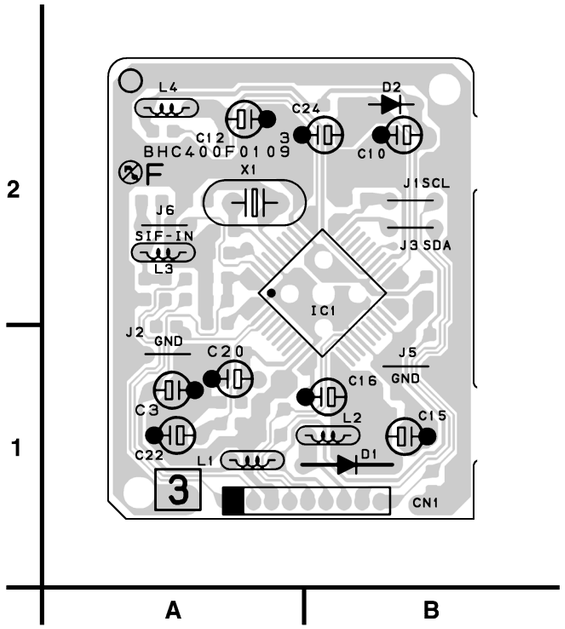


"●" = SMD

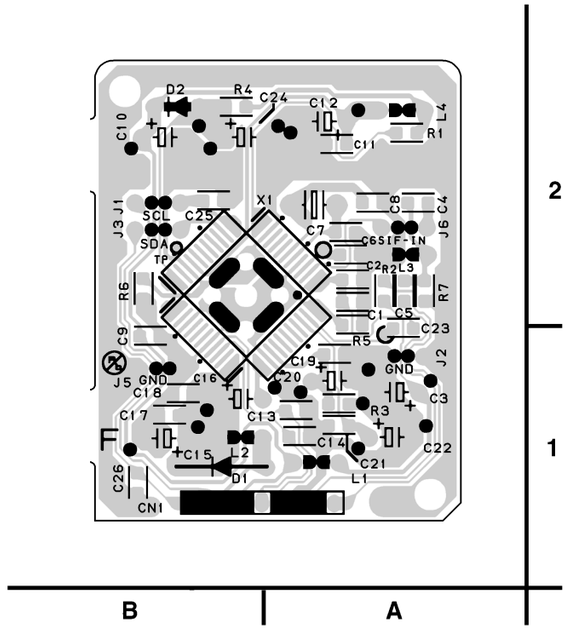
AFV Schematic Diagram
Parts Location Guide

Ref No.	Position
CAPACITORS	
C1	A-1
C4	A-1
C5	B-1
C6	A-1
C7	A-1
C8	B-1
C11	C-2
C12	C-2
C13	B-2
C14	A-2
C15	A-2
C16	A-2
C17	A-2
C19	A-2
C20	A-2
C21	A-1
C22	A-2
C23	A-1
C24	B-2
CONNECTOR	
CN1	C-1
DIODE	
D2	B-2
IC	
IC1	A-1
COILS	
L1	A-1
L2	A-2
L3	A-1
L4	C-2
RESISTORS	
R1	B-1
R2	A-1
R4	B-2
R5	A-1
R6	A-1
R7	A-1
CRYSTAL OSCILLATOR	
X1	B-1

AFV CBA Top View



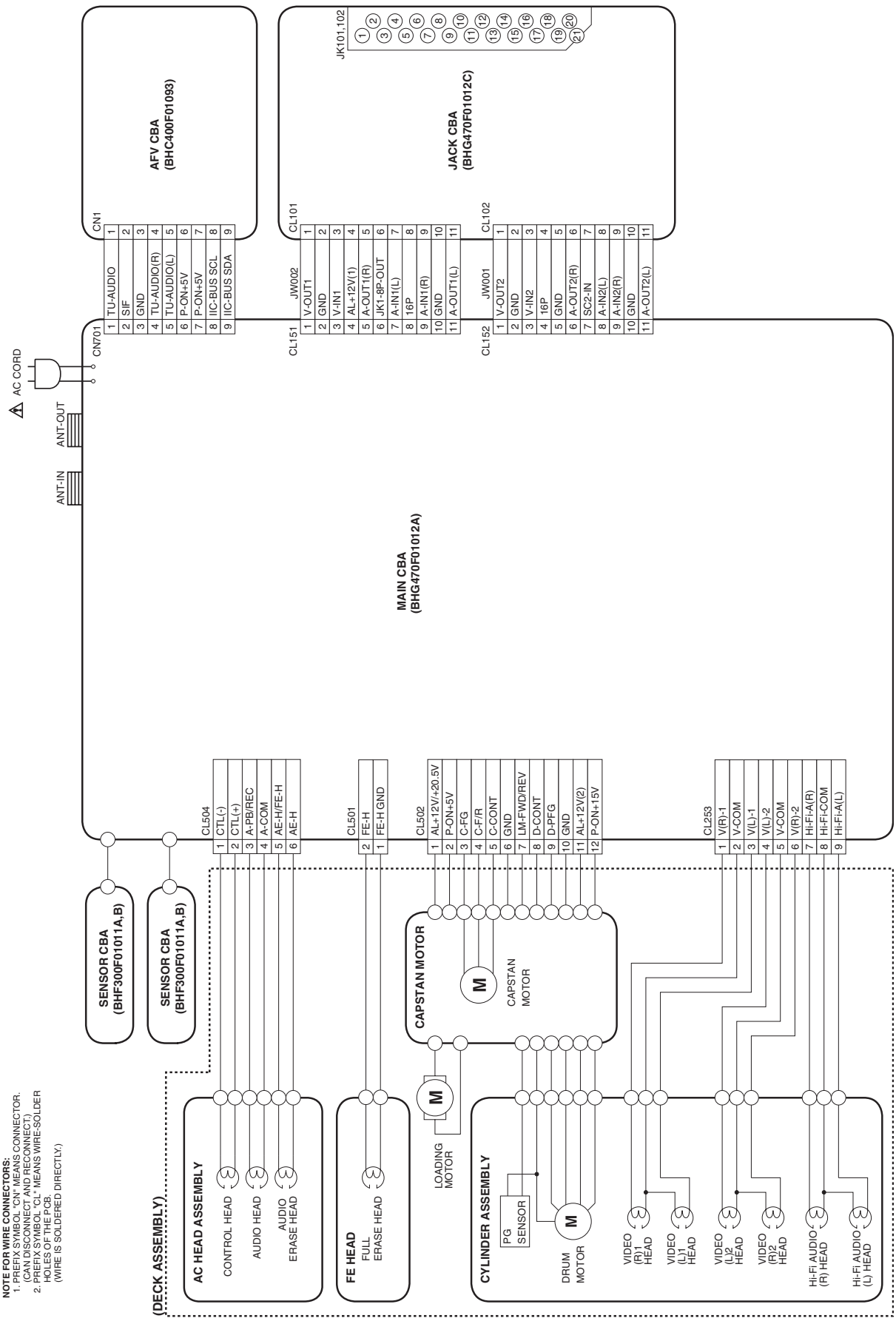
AFV CBA Bottom View



AFV CBA Parts Location Guide

Ref No.	Position
CAPACITORS	
C1	A-2
C4	A-2
C5	A-2
C6	A-2
C7	A-2
C8	A-2
C11	A-2
C12	A-2
C13	B-1
C14	A-1
C15	B-1
C16	B-1
C17	B-1
C19	A-1
C20	A-1
C21	A-1
C22	A-1
C23	A-1
C24	B-2
CONNECTOR	
CN1	B-1
DIODE	
D2	B-2
IC	
IC1	B-2
COILS	
L1	A-1
L2	B-1
L3	A-2
L4	A-2
RESISTORS	
R1	A-2
R2	A-2
R4	B-2
R5	A-1
R6	B-2
R7	A-2
CRYSTAL OSCILLATOR	
X1	B-2

WIRING DIAGRAM



NOTE FOR WIRE CONNECTORS:
1. PREFIX SYMBOL "CN" MEANS CONNECTOR. (CAN DISCONNECT AND RECONNECT)
2. PREFIX SYMBOL "CL" MEANS WIRE-SOLDER HOLES OF THE PCB. (WIRE IS SOLDERED DIRECTLY.)

IC PIN FUNCTION DESCRIPTIONS

[VR550/ (39, 58)]

Comparison Chart of Models and Marks

Model	Mark
VR550/39	D
VR550/58	E

IC501(SERVO / SYSTEM CONTROL IC)

"H" ≥ 4.5V, "L" ≤ 1.0V

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
1		IN	SC2-IN	Input Signal from Pin 8 of SCART2	A/D
2		IN	PG-DELAY	Video Head Switching Pulse Signal Adjusted Voltage	A/D
3		IN	POW-SAF	P-ON Power Detection Input Signal	A/D
4		IN	END-S	Tape End Position Detect Signal	A/D
5		IN	AFC	Automatic Frequency Control Signal	A/D
6		IN	V-ENV	Video Envelope Comparator Signal	A/D
7		IN	KEY-1	Key Scan Input Signal 1	A/D
8		IN	KEY-2	Key Scan Input Signal 2	A/D
9		IN	LD-SW	Deck Mode Position Detector Signal	A/D
10		IN	ST-S	Tape Start Position Detector Signal	A/D
11		-	N.U.	Not Used	-
12		-	N.U.	Not Used	-
13		OUT	D-V-SYNC	Dummy V-sync Output	H/Hi-z
14		IN	REMOCON-IN	Remote Control Sensor	L
15		OUT	C-ROTA	Color Phase Rotary Changeover SIgnal	H/L
16		OUT	H-A-SW	Video Head Amp Switching Pulse	H/L
17		IN	H-A-COMP	Head Amp Comparator Signal	H/L
18		OUT	RF-SW	Video Head Switching Pulse	H/L
19		OUT	Hi-Fi-H-SW	Hi-Fi Audio Head Switching Pulse	H/L
20		-	N.U.	Not Used	-
21		-	N.U.	Not Used	-
22		-	N.U.	Not Used	-
23		-	N.U.	Not Used	-
24		-	N.U.	Not Used	-
25		-	N.U.	Not Used	-
26		-	N.U.	Not Used	-
27		OUT	RGB-THROUGH	SCART 2 RGB Through Control Signal	L/H
28		OUT	LINE-MUTE	Audio Mute Control Signal	H
29		-	N.U.	Not Used	-
30		-	N.U.	Not Used	-
31		IN	REC-SAF-SW	Recording Safety SW Detect (With Record tab="L"/With out Record tab="H")	H
32		IN	A-MODE	Hi-Fi Tape Detection Signal	L
33		OUT	D-REC-H	Delayed Record Signal	H
34		IN	RESET	System Reset Signal (Reset="L")	L
35		IN	XC-IN	Sub Clock	-
36		OUT	XC-OUT	Sub Clock	-
37		-	Vcc	Vcc	-
38		IN	X-IN	Main Clock Input	-
39		OUT	X-OUT	Main Clock Input	-

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
40		-	Vss	Vss(GND)	-
41		-	N.U.	Not Used	-
42		-	N.U.	Not Used	-
43		IN	CLKSEL	Clock Select (GND)	-
44		IN	OSCin	Clock Input for letter size	-
45		OUT	OSCout	Clock Output for letter size	-
46		-	N.U.	Not Used	-
47		-	LP	LP	-
48		IN	FSC-IN [4.43MHz]	4.43MHz Clock Input	-
49		-	OSDVss	OSDVss	-
50		IN	OSD-V-IN	OSD Video Signal Input	-
51		-	N.U.	Not Used	-
52		OUT	OSD-V-OUT	OSD Video Signal Output	-
53		-	OSDVcc	OSDVcc	-
54		-	HLF	LPF Connected Terminal (Slicer)	-
55		-	N.U.	Not Used	-
56		-	N.U.	Not Used	-
57		-	N.U.	Not Used	-
58		IN	C-SYNC	Composite Synchronized Pulse	PULSE
59		OUT	8POUT-1	SCART 1 8Pin Output Control Signal	H/L
60		OUT	8POUT-2	SCART 2 8Pin Output Control Signal	H/L
61	D	IN	SECAM-H	SECAM Mode at High	H/L
	E	-	N.U.	Not Used	-
62		-	N.U.	Not Used	-
63		-	N.U.	Not Used	-
64		IN	FTV-IN	Comparator Input of Video Signal for Follow TV	L/H
65	D	OUT	TRICK-H	Special Playback = “H” in SECAM Mode	H
	E	-	N.U.	Not Used	-

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
66		OUT	C-POW-SW	Capstan Power Switching Pulse	L/H
67		OUT	P-ON-H	Power On Signal at High	H
68		OUT	DRV-DATA	LED Clock Driver IC Control Data	H/L
69		OUT	DRV-STB	LED Clock Driver IC Chip Select Signal	H/L
70		OUT	DRV-CLK	LED Clock Driver IC Control Clock	H/L
71		OUT	IIC-BUS SCL	I^2C BUS Control Clock	H/L
72		IN/ OUT	IIC-BUS SDA	I^2C BUS Control Data	H/L
73		-	N.U.	Not Used	-
74		-	N.U.	Not Used	-
75		-	N.U.	Not Used	-
76		OUT	C-CONT	Capstan Motor Control Signal	PWM
77		OUT	D-CONT	Drum Motor Control Signal	PWM
78		OUT	C-F/R	Capstan Motor FWD/REV Control Signal (FWD=”L”/ REV=”H”)	H/L
79		IN	S-REEL	Supply Reel Rotation Signal	PULSE
80		IN	T-REEL	Take Up Reel Rotation Signal	PULSE
81		OUT	LM-FWD/ REV	Loading Motor Control Signal	H/L/ Hi-z
82		-	N.U.	Not Used	-
83		OUT	A-MUTE	Audio Mute Control Signal	H
84		-	N.U.	Not Used	-
85		-	N.U.	Not Used	-
86		IN	P-DOWN-L	Power Voltage Down Detector Signal	L
87		IN	C-FG	Capstan Motor Rotation Detection Pulse	PULSE
88		-	N.U.	Not Used	-
89		-	N.U.	Not Used	-

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
90		IN	D-PFG	Drum Motor Pulse Generator	PULSE
91		-	AMPVREF OUT	V-Ref for CTL AMP	-
92		-	AMPVREF IN	V-Ref for CTL AMP	-
93		-	P80/C	P80/C Terminal	-
94		IN/ OUT	CTL (-)	Playback/ Record Control Signal (-)	H/L
95		IN/ OUT	CTL (+)	Playback/ Record Control Signal (+)	H/L
96		-	AMPC	CTL AMP Connected Terminal	-
97		-	CTLAMP out	To Monitor for CTL AMP Output	PULSE
98		-	AMPVcc	AMPVcc	-
99		-	AVcc	A/D Converter Power Input/ Standard Voltage Input	-
100		IN	AGC	IF AGC Comparator Signal	A/D

Notes:

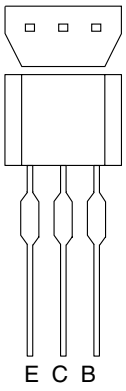
Abbreviation for Active Level:

PWM -----Pulse Wide Modulation

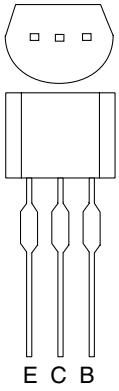
A/D--------Analog - Digital Converter

LEAD IDENTIFICATIONS

[VR550/ (39, 58)]

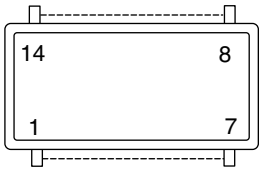


2SC2785(F,H,J)
BA1F4M-T
BN1F4M-T
BN1L4M-T
KRA103M
KRA104M
KRC103M
KTA1266(GR)
KTA1281(Y)
KTC3199(BL,GR,Y)



2SA1015-GR(TPE2)
2SA1020(Y)
2SC1815-BL(TPE2)
2SC1815-GR(TPE2)
2SC1815-Y(TPE2)
2SC2120-Y(TPE2)
2SC3266-Y(TPE2)
KTA1267(GR,Y)
KTC3203(Y)
KTC3205(Y)

KIA339F EL
LM339DT



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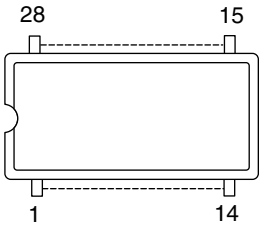
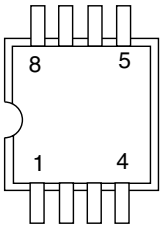
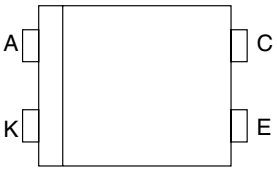


BR24L02F-WE2
CAT24WC02JI



EL817A
EL817B
EL817C
LTV-817B-F
LTV-817C-F
PS2561A-1(Q,W)



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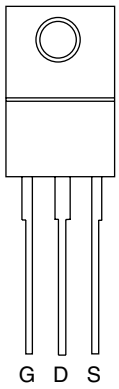

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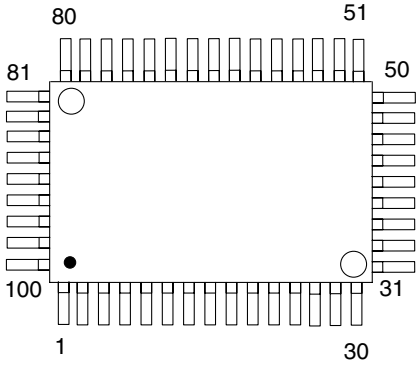

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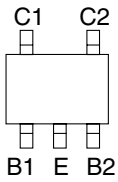
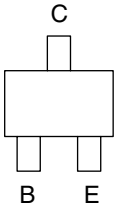


FA1F4M-T1B
KRC103S RTK
KTA1504GR-RTK
KTA1504Y-RTK
KTC3875Y-RTK



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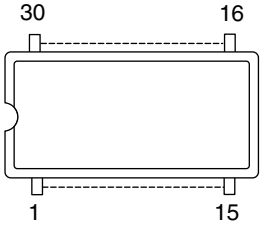

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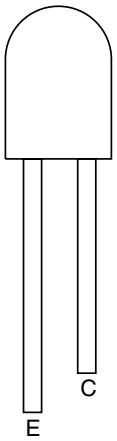

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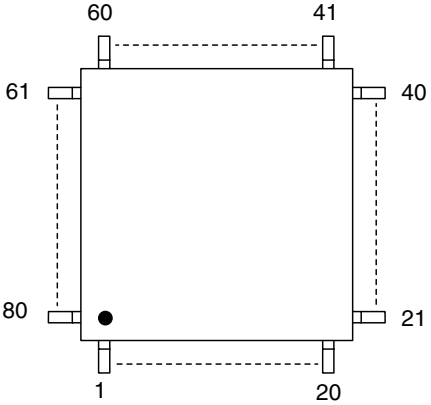
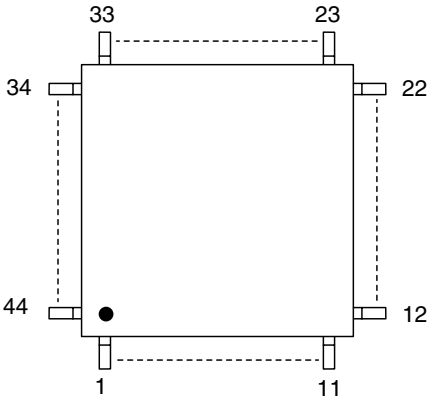


MSP3417G-QG-B8
MSP3417G-QG-B8-V3



Note:
A: Anode
K: Cathode
E: Emitter
C: Collector
B: Base
R: Reference
S: Source
G: Gate
D: Drain

PRODUCT SAFETY NOTE: Products marked with a ▲

have special characteristics important to safety.
Before replacing any of these components, read carefully
the product safety notice in this service manual.
Don't degrade the safety of the product through improper servicing.

NOTES:

Parts that not assigned part numbers (----------) are not available.
Tolerance of Capacitors and Resistors are noted with the following symbols.

C…..±0.25% D…..±0.5% F…..±1%
G…..±2% J…..±5% K…..±10%
M…..±20% N…..±30% Z…..+80/-20%

ELECTRICAL PARTS LIST

Pos.	▲	12 NC	Description	VR550/39	VR550/58
			MCV CBA		
			Consists of the following		
			MAIN CBA(MCV-A)	**1**	**1**
			JACK CBA(MCV-C)	**1**	**1**
			SENSOR CBA	**1**	**1**
			SENSOR CBA	**1**	**1**
			MAIN CBA(MCV-A)	**1**	**1**
			AFV CBA	**1**	**1**
			CAPACITORS		
C002	▲	9965 000 06521	METALLIZED FILM CAP. 0.068UF/250V K	1	1
C003	▲	9965 000 23354	SAFTY CAP. 2200PF/250V	1	1
C004		4822 124 80025	ELECTROLYTIC CAP. 33UF/400V M(L.Z)	1	1
C005		4822 126 14142	CERAMIC CAP. B K 0.01UF/500V	1	1
C006		4822 126 14141	CERAMIC CAP. SL K 56PF/1KV	1	1
C007			CERAMIC CAP.(AX) B K 1000PF/50V	1	1
C008			CERAMIC CAP.(AX) X K 5600PF/16V	1	1
C010			FILM CAP.(P) 0.022UF/50V J	1	1
C011			ELECTROLYTIC CAP. 10UF/16V M H7	1	1
C012			ELECTROLYTIC CAP. 10UF/50V M H7	1	1
C014			ELECTROLYTIC CAP. 470UF/35V M	1	1
C017			ELECTROLYTIC CAP. 470UF/16V M	1	1
C018			ELECTROLYTIC CAP. 100UF/16V M	1	1
C020			ELECTROLYTIC CAP. 1000UF/16V M	1	1
C021			ELECTROLYTIC CAP. 470UF/10V M	1	1
C025			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1
C026			ELECTROLYTIC CAP. 47UF/16V M H7	1	1
C053			ELECTROLYTIC CAP. 330UF/6.3V M H7	1	1
C056			CHIP CERAMIC CAP.(1608) B K 0.047UF/50V	1	1
C057			CHIP CERAMIC CAP.(1608) CH J 470PF/50V	1	1
C060			ELECTROLYTIC CAP. 10UF/16V M H7	1	1
C061			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C157			ELECTROLYTIC CAP. 1UF/50V M H7	1	1
C158			CHIP CERAMIC CAP. B K 1000PF/50V	1	1
C251			ELECTROLYTIC CAP. 10UF/16V M H7	1	1
C252			CHIP CERAMIC CAP. B K 1000PF/50V	1	1
C253			ELECTROLYTIC CAP. 1UF/50V M H7	1	1

ELECTRICAL PARTS LIST

Pos.	▲	12 NC	Description	VR550/39	VR550/58
C254			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C302			CHIP CERAMIC CAP.(1608) B K 0.022UF/50V	1	1
C303			ELECTROLYTIC CAP. 1UF/50V M H7	1	1
C304			ELECTROLYTIC CAP. 1UF/50V M H7	1	1
C305			CHIP CERAMIC CAP. F Z 0.22UF/16V	1	1
C307			CHIP CERAMIC CAP.(1608) B K 0.047UF/50V	1	1
C308			CHIP CERAMIC CAP.(1608) B K 0.022UF/50V	1	1
C309			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C310			CHIP CERAMIC CAP.(1608) B K 0.047UF/50V	1	1
C311			CHIP CERAMIC CAP.(1608) B K 0.022UF/50V	1	1
C312			CHIP CERAMIC CAP. B K 8200PF/50V	1	1
C313			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C314			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1
C315			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C316			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1
C317			ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1
C318			ELECTROLYTIC CAP. 1UF/50V M H7	1	1
C319			ELECTROLYTIC CAP. 1UF/50V M H7	1	1
C320			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C321			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C322			ELECTROLYTIC CAP. 10UF/16V M H7	1	1
C323			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C324			CHIP CERAMIC CAP. CH J 68PF/50V	1	1
C325			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C326			CHIP CERAMIC CAP. CH J 68PF/50V	1	1
C327			ELECTROLYTIC CAP. 0.47UF/50V M H7	1	1
C330			CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1
C332			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C333			ELECTROLYTIC CAP. 0.47UF/50V M H7	1	1
C334			ELECTROLYTIC CAP. 4.7UF/25V M NP H7	1	1
C335			ELECTROLYTIC CAP. 10UF/16V M H7	1	1
C336			CHIP CERAMIC CAP.(1608) CH J 1000PF/50V	1	1
C337			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C338			ELECTROLYTIC CAP. 100UF/6.3V H7	1	1
C339			ELECTROLYTIC CAP. 1UF/50V M H7	1	1
C340			CHIP CERAMIC CAP. CH J 120PF/50V	1	1
C341			CHIP CERAMIC CAP. CH J 220PF/50V	1	1
C342			ELECTROLYTIC CAP. 1UF/50V M H7	1	1
C343			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C345			CHIP CERAMIC CAP. CH J 68PF/50V	1	1
C346			CHIP CERAMIC CAP. CH J 68PF/50V	1	1
C347			CHIP CERAMIC CAP. CH D 10PF/50V	1	1
C351			ELECTROLYTIC CAP. 220UF/6.3V M H7	1	1
C352			ELECTROLYTIC CAP. 100UF/16V M H7	1	1
C370			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	
C371			CHIP CERAMIC CAP.(1608) B K 0.022UF/50V	1	
C372			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	
C373			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	
C374			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	
C375			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	
C376			CHIP CERAMIC CAP.(1608) B K 0.022UF/50V	1	
C377			CERAMIC CAP.(AX) Y M 0.01UF/16V	1	
C378			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	
C379			ELECTROLYTIC CAP. 0.47UF/50V M H7	1	
C381			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	
C382			CHIP CERAMIC CAP. B K 2200PF/50V	1	
C383			CHIP CERAMIC CAP. B K 2200PF/50V	1	
C384			ELECTROLYTIC CAP. 2.2UF/50V M H7	1	

ELECTRICAL PARTS LIST

Pos.	▲	12 NC	Description	VR550/39	VR550/58
C401			ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1
C402			ELECTROLYTIC CAP. 220UF/6.3V M H7	1	1
C403			CERAMIC CAP. B K 470PF/100V	1	1
C404			FILM CAP.(P) 0.018UF/100V J	1	1
C411			CHIP CERAMIC CAP. B K 1000PF/50V	1	1
C412			CHIP CERAMIC CAP. B K 1800PF/50V	1	1
C414			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1
C415			ELECTROLYTIC CAP. 10UF/16V M H7	1	1
C416			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C417			CHIP CERAMIC CAP.(1608) B K 0.022UF/50V	1	1
C418			CHIP CERAMIC CAP.(1608) CH J 33PF/50V	1	1
C419			CHIP CERAMIC CAP.(1608) B K 4700PF/50V	1	1
C421			ELECTROLYTIC CAP. 33UF/6.3V M H7	1	1
C422			ELECTROLYTIC CAP. 4.7UF/25V M H7	1	1
C424			ELECTROLYTIC CAP. 22UF/6.3V M H7	1	1
C425			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C428			CHIP CERAMIC CAP. CH J 220PF/50V	1	1
C430			ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1
C451			ELECTROLYTIC CAP. 47UF/16V M H7	1	1
C452			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C453			ELECTROLYTIC CAP. 10UF/16V M H7	1	1
C454			ELECTROLYTIC CAP. 22UF/10V M H7	1	1
C455			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C456			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C457			ELECTROLYTIC CAP. 10UF/16V M H7	1	1
C458			ELECTROLYTIC CAP. 4.7UF/25V M H7	1	1
C459			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1
C460			CHIP CERAMIC CAP.(1608) B K 4700PF/50V	1	1
C461			ELECTROLYTIC CAP. 22UF/10V M H7	1	1
C462			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1
C463			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1
C464			ELECTROLYTIC CAP. 10UF/16V M H7	1	1
C465			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C466			ELECTROLYTIC CAP. 220UF/6.3V M H7	1	1
C467			ELECTROLYTIC CAP. 22UF/10V M H7	1	1
C468			CHIP CERAMIC CAP.(1608) B K 4700PF/50V	1	1
C469			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1
C470			ELECTROLYTIC CAP. 4.7UF/25V M H7	1	1
C471			ELECTROLYTIC CAP. 10UF/16V M H7	1	1
C472			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C473			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C474			ELECTROLYTIC CAP. 22UF/6.3V M H7	1	1
C475			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C476			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C477			ELECTROLYTIC CAP. 10UF/16V M H7	1	1
C478			ELECTROLYTIC CAP. 4.7UF/25V M H7	1	1
C479			ELECTROLYTIC CAP. 4.7UF/25V M H7	1	1
C480			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C481			ELECTROLYTIC CAP. 4.7UF/25V M H7		1
C482			ELECTROLYTIC CAP. 4.7UF/25V M H7	1	1
C483			ELECTROLYTIC CAP. 4.7UF/25V M H7	1	1
C484			ELECTROLYTIC CAP. 10UF/16V M H7	1	1
C485			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C486			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C501			ELECTROLYTIC CAP. 220UF/6.3V M H7	1	1
C502			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C506			CERAMIC CAP.(AX) B K 100PF/50V	1	1
C508			ELECTROLYTIC CAP. 1UF/50V M H7	1	1

ELECTRICAL PARTS LIST

Pos.	▲	12 NC	Description	VR550/39	VR550/58
C510			ELECTROLYTIC CAP. 22UF/10V M H7	1	1
C511			ELECTROLYTIC CAP. 100UF/6.3V H7	1	1
C512			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C513			CHIP CERAMIC CAP.(1608) CH J 22PF/50V	1	1
C514			CHIP CERAMIC CAP.(1608) CH J 22PF/50V	1	1
C515			CHIP CERAMIC CAP. CH J 18PF/50V	1	1
C516			CHIP CERAMIC CAP. CH J 18PF/50V	1	1
C517			CHIP CERAMIC CAP.(1608) B K 4700PF/50V	1	1
C518			CHIP CERAMIC CAP.(1608) B K 0.047UF/50V	1	1
C519			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1
C520			CHIP CERAMIC CAP.(1608) CH J 100PF/50V	1	1
C521			CHIP CERAMIC CAP. CH J 560PF/50V	1	1
C522			ELECTROLYTIC CAP. 22UF/6.3V M H7	1	1
C523			CHIP CERAMIC CAP. B K 1000PF/50V	1	1
C524			CHIP CERAMIC CAP. CH J 330PF/50V	1	1
C526			CHIP CERAMIC CAP.(1608) B K 4700PF/50V	1	1
C527			ELECTROLYTIC CAP. 22UF/6.3V M H7	1	1
C528			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1
C530			CERAMIC CAP.(AX) F Z 0.022UF/25V	1	1
C531			CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1
C532			ELECTROLYTIC CAP. 22UF/6.3V M H7	1	1
C533			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C535			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1
C538			CHIP CERAMIC CAP.(1608) B K 0.022UF/50V	1	1
C540			ELECTROLYTIC CAP. 470UF/6.3V M	1	1
C561			CHIP CERAMIC CAP.(1608) B K 0.022UF/50V	1	1
C562			ELECTROLYTIC CAP. 330UF/6.3V M H7	1	1
C563			CHIP CERAMIC CAP.(1608) B K 0.1UF/25V	1	1
C564			CHIP CERAMIC CAP.(1608) CH J 100PF/50V	1	1
C701			CHIP CERAMIC CAP.(1608) B K 0.047UF/50V		1
C702			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C704			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1
C706			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C708			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1
C716			CHIP CERAMIC CAP. F Z 0.22UF/16V	1	1
C717			CHIP CERAMIC CAP. F Z 0.22UF/16V	1	1
C771			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C772			ELECTROLYTIC CAP. 10UF/16V M H7	1	1
C773			CHIP CERAMIC CAP. B K 1000PF/50V	1	1
C774			CHIP CERAMIC CAP. B K 1000PF/50V	1	1
C775			ELECTROLYTIC CAP. 1UF/50V M H7	1	1
C776			ELECTROLYTIC CAP. 1UF/50V M H7	1	1
C777			CHIP CERAMIC CAP. CH J 180PF/50V	1	1
C778			CHIP CERAMIC CAP. CH J 180PF/50V	1	1
C851			CHIP CERAMIC CAP.(1608) CH J 22PF/50V	1	1
C852			CHIP CERAMIC CAP.(1608) CH J 22PF/50V	1	1
C853			CHIP CERAMIC CAP.(1608) B K 4700PF/50V	1	1
C854			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1
C855			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C856			CHIP CERAMIC CAP. CH J 180PF/50V	1	1
C858			CHIP CERAMIC CAP. CH J 560PF/50V	1	1
C859			ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1
C862			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1
CN701		9965 000 23394	AFV PCB ASSEMBLY CPU2900/G473	1	
CN701		9965 000 23385	AFV PCB ASSEMBLY CPU2900/G471		1
			DIODES		
D001		4822 130 31933	RECTIFIER DIODE 1N4005	1	1
D002		4822 130 31933	RECTIFIER DIODE 1N4005	1	1

ELECTRICAL PARTS LIST

Pos.	▲	12 NC	Description	VR550/39	VR550/58
D003		4822 130 31933	RECTIFIER DIODE 1N4005	1	1
D004		4822 130 31933	RECTIFIER DIODE 1N4005	1	1
D005		5322 130 34979	RECTIFIER DIODE BA159	1	1
D006		4822 130 30621	SWITCHING DIODE 1N4148M	1	1
D007		4822 130 30621	SWITCHING DIODE 1N4148M	1	1
D008		4822 130 30621	SWITCHING DIODE 1N4148M	1	1
D009		4822 130 30621	SWITCHING DIODE 1N4148M	1	1
D011		4822 130 11654	RECTIFIER DIODE BA158	1	1
D012		4822 130 83883	RECTIFIER DIODE FR202-B/P	1	1
D013		4822 130 83883	RECTIFIER DIODE FR202-B/P	1	1
D014		4822 130 32715	SCHOTTKY BARRIER DIODE SB340	1	1
D015		9965 000 23356	ZENER DIODE DZ-18BSBT265	1	1
D018		4822 130 30621	SWITCHING DIODE 1N4148M	1	1
D019		9965 000 14881	ZENER DIODE DZ-6.8BSBT265	1	1
D021		4822 130 30621	SWITCHING DIODE 1N4148M	1	1
D051		4822 130 31933	RECTIFIER DIODE 1N4005	1	1
D052		4822 130 31933	RECTIFIER DIODE 1N4005	1	1
D053		4822 130 31933	RECTIFIER DIODE 1N4005	1	1
D055			PCB JUMPER D0.6-P10.0	1	1
D056		9965 000 08649	ZENER DIODE DZ-5.6BSCT265	1	1
D057		9965 000 09283	ZENER DIODE DZ-10BSBT265	1	1
D058		9965 000 23356	ZENER DIODE DZ-18BSBT265	1	1
D153		9965 000 12178	ZENER DIODE DZ-11BSAT265	1	1
D154		9965 000 12178	ZENER DIODE DZ-11BSAT265	1	1
D155		9965 000 12178	ZENER DIODE DZ-11BSAT265	1	1
D156		9965 000 12178	ZENER DIODE DZ-11BSAT265	1	1
D301		4822 130 30621	SWITCHING DIODE 1N4148M	1	1
D370		4822 130 30621	SWITCHING DIODE 1N4148M	1	
D501		4822 130 30621	SWITCHING DIODE 1N4148M	1	1
D502		9965 000 05250	LED SIR-563ST3F P	1	1
D552		4822 130 10094	ZENER DIODE MTZJT-777.5A	1	1
D553		4822 130 30621	SWITCHING DIODE 1N4148M	1	1
D701		9965 000 09183	ZENER DIODE DZ-33BSDT265	1	1
			IC's		
IC001	▲	4822 130 11655	PHOTOCOUPLER LTV-817B-F	1	1
IC301		9965 000 12180	IC:Y/C/A LA71750EM-MPB-E	1	1
IC370		9965 000 12255	IC:SECAM LA70100M-TRM	1	
IC451		9965 000 16618	IC:HIFI LA72648M-MPB-E	1	1
IC501		9965 000 23358	SYSCON IC M3776AMCA-AB4GP	1	1
IC503		9965 000 16620	IC:EEPROM CAT24WC02JI	1	1
IC561		9965 000 12183	IC:LED DRIVER PT6958-FN-TP	1	1
IC771		9965 000 12184	IC:COMPARATOR KIA339F EL	1	1
			COILS		
L001		4822 526 10685	BEAD CORE B16 RH 3.5X10X1.3	1	1
L002		4822 526 10685	BEAD CORE B16 RH 3.5X10X1.3	1	1
L003	▲	9965 000 13005	LINE FILTER 56MH TLF14CB5630R2	1	1
L009		9965 000 05627	CHOKE COIL 47UH-K	1	1
L010		9965 000 05627	CHOKE COIL 47UH-K	1	1
L012		9965 000 13681	INDUCTOR 100UH-J-5FT	1	1
L251		9965 000 08652	INDUCTOR 5.6UH-K-26T	1	1
L301		4822 157 10649	INDUCTOR(100UH K) LAP02TA101K	1	1
L370		4822 157 10332	PCB JUMPER D0.6-P5.0	1	
L403		9965 000 05705	INDUCTOR 47UH-K-5FT	1	1
L451		9965 000 05705	INDUCTOR 47UH-K-5FT	1	1
L452		9965 000 16621	INDUCTOR 27UH-K-5FT	1	1
L501		4822 157 10649	INDUCTOR(100UH K) LAP02TA101K	1	1
L561		9965 000 05704	INDUCTOR 68UH-K-26T	1	1
L562		4822 157 63316	INDUCTOR 56UH-K-26T	1	1

ELECTRICAL PARTS LIST

Pos.	▲	12 NC	Description	VR550/39	VR550/58
L701		4822 157 10332	PCB JUMPER D0.6-P5.0	1	1
L704		4822 157 11511	INDUCTOR 15UH-K-26T		1
L851		9965 000 08629	INDUCTOR 1.8UH-K-26T	1	1
			TRANSISTORS		
Q001		9965 000 17186	FET 2SK3566	1	1
Q002		4822 130 10923	TRANSISTOR KTC3199(BL)	1	1
Q003		4822 130 10923	TRANSISTOR KTC3199(BL)	1	1
Q004		4822 130 10462	TRANSISTOR KTA1267(GR)	1	1
Q051		4822 130 42292	RES. BUILT-IN TRANSISTOR KRA104M	1	1
Q052		9965 000 23377	RES. BUILT-IN TRANSISTOR KRC103M	1	1
Q053		4822 130 10103	TRANSISTOR KTC3199(Y)	1	1
Q054		9965 000 11122	TRANSISTOR KTC3205(Y)	1	1
Q055		4822 130 42959	TRANSISTOR KTA1266(GR)	1	1
Q056		4822 130 10145	RES. BUILT-IN TRANSISTOR KRA103M	1	1
Q057		9965 000 12190	TRANSISTOR KTA1281(Y)	1	1
Q058		9965 000 23377	RES. BUILT-IN TRANSISTOR KRC103M	1	1
Q059		9965 000 23377	RES. BUILT-IN TRANSISTOR KRC103M	1	1
Q153		4822 130 10103	TRANSISTOR KTC3199(Y)	1	1
Q351		9965 000 16622	CHIP TRANSISTOR KTA1504GR-RTK	1	1
Q352		4822 130 10103	TRANSISTOR KTC3199(Y)	1	1
Q401		4822 130 42959	TRANSISTOR KTA1266(GR)	1	1
Q402		4822 130 42292	TRANSISTOR KTC3203(Y)	1	1
Q403		4822 130 10145	RES. BUILT-IN TRANSISTOR KRA103M	1	1
Q405		9965 000 16623	CHIP TRANSISTOR FMG4A T148	1	1
Q406		9965 000 13683	CHIP TRANSISTOR KTC3875Y-RTK	1	1
Q451		9965 000 16624	CHIP TRANSISTOR KRC103S RTK	1	1
Q501		4822 130 10923	TRANSISTOR KTC3199(BL)	1	1
Q503		9965 000 08630	PHOTO TRANSISTOR PT204-6B-12	1	1
Q551		4822 130 10923	TRANSISTOR KTC3199(BL)	1	1
Q552		9965 000 23377	RES. BUILT-IN TRANSISTOR KRC103M	1	1
Q771		4822 130 10103	TRANSISTOR KTC3199(Y)	1	1
Q772		4822 130 10103	TRANSISTOR KTC3199(Y)	1	1
			RESISTORS		
R001		9965 000 08653	CARBON RES. 1/2W K 5.6M OHM	1	1
R002		9965 000 08635	METAL OXIDE FILM RES. 1W J 150K OHM	1	1
R003			CARBON RES. 1/4W J 1M OHM	1	1
R004			CARBON RES. 1/4W J 1M OHM	1	1
R005			CARBON RES. 1/6W G 680 OHM	1	1
R006		9965 000 08633	METAL OXIDE FILM RES. 1W J 1.8 OHM	1	1
R007			CARBON RES. 1/6W J 22K OHM	1	1
R008			CARBON RES. 1/6W J 100K OHM	1	1
R009			CARBON RES. 1/6W G 3.3K OHM	1	1
R011			CARBON RES. 1/4W J 390K OHM	1	1
R012			CARBON RES. 1/4W J 390K OHM	1	1
R013			CARBON RES. 1/6W J 470K OHM	1	1
R014			CARBON RES. 1/6W J 100K OHM	1	1
R015			CHIP RES.(1608) 1/10W J 10K OHM	1	1
R016			CARBON RES. 1/6W J 100K OHM	1	1
R017			CHIP RES.(1608) 1/10W J 220K OHM	1	1
R018			CHIP RES.(1608) 1/10W J 22K OHM	1	1
R021		9965 000 13036	CHIP RES.(1608) 1/10W J 1K OHM	1	1
R022			CHIP RES.(1608) 1/10W J 4.7K OHM	1	1
R023			CHIP RES.(1608) 1/10W F 2.2K OHM	1	1
R024			CHIP RES.(1608) 1/10W J 33K OHM	1	1
R025			CHIP RES.(1608) 1/10W F 3.3K OHM	1	1
R026			CHIP RES.(1608) 1/10W J 22K OHM	1	1
R027			CARBON RES. 1/6W J 1K OHM	1	1
R028			CARBON RES. 1/4W J 1M OHM	1	1

ELECTRICAL PARTS LIST

Pos.	▲	12 NC	Description	VR550/39	VR550/58
R030			CHIP RES.(1608) 1/10W F 2.2K OHM	1	1
R031			CHIP RES.(1608) 1/10W J 56K OHM	1	1
R032			CHIP RES.(1608) 1/10W J 1.8K OHM	1	1
R053		4822 157 10332	PCB JUMPER D0.6-P5.0	1	1
R054			CHIP RES.(1608) 1/10W J 180 OHM	1	1
R058			CARBON RES. 1/6W J 820 OHM	1	1
R060			CARBON RES. 1/6W J 2.7K OHM	1	1
R061			CHIP RES.(1608) 1/10W J 22K OHM	1	1
R062			CARBON RES. 1/6W J 10K OHM	1	1
R063			CARBON RES. 1/4W J 1.2K OHM	1	1
R064			CARBON RES. 1/4W J 1.2K OHM	1	1
R065			CARBON RES. 1/4W J 1.2K OHM	1	1
R066			CHIP RES.(1608) 1/10W J 47K OHM	1	1
R067			CARBON RES. 1/4W J 680 OHM	1	1
R068			CARBON RES. 1/4W J 680 OHM	1	1
R071			CARBON RES. 1/6W J 3.9K OHM	1	1
R073			CARBON RES. 1/6W J 1 OHM	1	1
R158			CHIP RES.(1608) 1/10W J 6.8K OHM	1	1
R251			CHIP RES.(1608) 1/10W J 2.7K OHM	1	1
R252			CHIP RES.(1608) 1/10W J 39K OHM	1	1
R301			CHIP RES.(1608) 1/10W J 1.2K OHM	1	1
R302			CHIP RES.(1608) 1/10W J 8.2K OHM	1	1
R303			CHIP RES.(1608) 1/10W J 5.6K OHM	1	1
R304			CHIP RES.(1608) 1/10W J 3.9K OHM	1	1
R305			CHIP RES.(1608) 1/10W J 3.9K OHM	1	1
R307			CHIP RES.(1608) 1/10W J 4.7K OHM	1	1
R308			CHIP RES.(1608) 1/10W J 6.8K OHM	1	1
R309			CHIP RES.(1608) 1/10W J 100 OHM	1	1
R310			CHIP RES.(1608) 1/10W J 10K OHM	1	1
R311			CHIP RES.(1608) 1/10W J 18K OHM	1	1
R312			CHIP RES.(1608) 1/10W J 10K OHM	1	1
R313			CHIP RES.(1608) 1/10W J 18K OHM	1	1
R315			CHIP RES.(1608) 1/10W J 2.2K OHM	1	1
R316			CHIP RES.(1608) 1/10W J 6.8K OHM	1	1
R317			CHIP RES.(1608) 1/10W J 1.2K OHM	1	1
R318			CHIP RES.(1608) 1/10W J 4.7K OHM	1	1
R319			CHIP RES.(1608) 1/10W J 10K OHM	1	1
R320		9965 000 13036	CHIP RES.(1608) 1/10W J 1K OHM	1	1
R321			CARBON RES. 1/6W J 33 OHM	1	1
R323			CARBON RES. 1/6W J 33 OHM	1	1
R324			CHIP RES.(1608) 1/10W J 47K OHM	1	1
R325			CHIP RES.(1608) 1/10W J 33 OHM	1	1
R326		9965 000 09942	CHIP RES.(1608) 1/10W 0 OHM	1	1
R330			CHIP RES.(1608) 1/10W J 5.6M OHM	1	1
R331			CHIP RES.(1608) 1/10W J 10K OHM	1	1
R332		9965 000 09942	CHIP RES.(1608) 1/10W 0 OHM	1	1
R334		9965 000 09942	CHIP RES.(1608) 1/10W 0 OHM	1	1
R351			CHIP RES.(1608) 1/10W J 150 OHM	1	
R352			CHIP RES.(1608) 1/10W J 150 OHM	1	1
R355			CARBON RES. 1/4W J 680 OHM	1	1
R357			CHIP RES.(1608) 1/10W J 220 OHM	1	1
R358			CHIP RES.(1608) 1/10W J 1.5K OHM		1
R360			CHIP RES.(1608) 1/10W J 1.8K OHM	1	1
R361		9965 000 13036	CHIP RES.(1608) 1/10W J 1K OHM	1	1
R370			CHIP RES.(1608) 1/10W J 2.7K OHM	1	
R371			CARBON RES. 1/6W J 5.6K OHM	1	
R372			CHIP RES.(1608) 1/10W J 3.9K OHM	1	
R401			CHIP RES.(1608) 1/10W J 5.6K OHM	1	1

ELECTRICAL PARTS LIST

Pos.	▲	12 NC	Description	VR550/39	VR550/58
R402			CHIP RES.(1608) 1/10W J 22K OHM	1	1
R403			CHIP RES.(1608) 1/10W J 47K OHM	1	1
R404			CARBON RES. 1/6W J 100 OHM	1	1
R407			CARBON RES. 1/4W J 820 OHM	1	1
R408			CHIP RES.(1608) 1/10W J 12K OHM	1	1
R409			CHIP RES.(1608) 1/10W J 5.6K OHM	1	1
R411		9965 000 13036	CHIP RES.(1608) 1/10W J 1K OHM	1	1
R412			CHIP RES.(1608) 1/10W J 27K OHM	1	1
R413			CHIP RES.(1608) 1/10W J 330K OHM	1	1
R414			CHIP RES.(1608) 1/10W J 120 OHM	1	1
R415			CHIP RES.(1608) 1/10W J 12K OHM	1	1
R416			CHIP RES.(1608) 1/10W J 1.8K OHM	1	1
R417			CHIP RES.(1608) 1/10W J 560 OHM	1	1
R418		9965 000 09942	CHIP RES.(1608) 1/10W 0 OHM	1	1
R421			CHIP RES.(1608) 1/10W J 12K OHM	1	1
R422			CHIP RES.(1608) 1/10W J 10K OHM	1	1
R425			CHIP RES.(1608) 1/10W J 5.6K OHM	1	1
R426			CHIP RES.(1608) 1/10W J 4.7K OHM	1	1
R429			CHIP RES.(1608) 1/10W J 2.2K OHM	1	1
R430		9965 000 09942	CHIP RES.(1608) 1/10W 0 OHM	1	1
R431		9965 000 09942	CHIP RES.(1608) 1/10W 0 OHM	1	1
R451			CHIP RES.(1608) 1/10W J 8.2K OHM	1	1
R452			CHIP RES.(1608) 1/10W J 39K OHM	1	1
R453			CHIP RES.(1608) 1/10W J 5.6K OHM	1	1
R454			CHIP RES.(1608) 1/10W J 39K OHM	1	1
R457			CHIP RES.(1608) 1/10W J 5.6K OHM	1	1
R458		9965 000 09942	CHIP RES.(1608) 1/10W 0 OHM	1	1
R459			CHIP RES.(1608) 1/10W J 39K OHM	1	1
R460			CHIP RES.(1608) 1/10W J 470 OHM	1	1
R461			CHIP RES.(1608) 1/10W J 10K OHM	1	1
R462			CHIP RES.(1608) 1/10W J 2.7K OHM	1	1
R463			CHIP RES.(1608) 1/10W J 8.2K OHM	1	1
R464			CHIP RES.(1608) 1/10W J 39K OHM	1	1
R465			CHIP RES.(1608) 1/10W J 8.2K OHM	1	1
R466			CHIP RES.(1608) 1/10W J 5.6K OHM	1	1
R467		9965 000 09942	CHIP RES.(1608) 1/10W 0 OHM	1	1
R469			CHIP RES.(1608) 1/10W J 5.6K OHM	1	1
R471			CHIP RES.(1608) 1/10W J 39K OHM	1	1
R472			CHIP RES.(1608) 1/10W J 150 OHM	1	1
R473			CHIP RES.(1608) 1/10W J 150 OHM	1	1
R474			CHIP RES.(1608) 1/10W J 39K OHM	1	1
R475			CHIP RES.(1608) 1/10W J 10K OHM		1
R476			CHIP RES.(1608) 1/10W J 33 OHM	1	1
R477			CHIP RES.(1608) 1/10W J 33 OHM	1	1
R478			CHIP RES.(1608) 1/10W J 22K OHM	1	1
R479			CHIP RES.(1608) 1/10W J 6.8K OHM	1	1
R480			CHIP RES.(1608) 1/10W J 100 OHM	1	1
R481			CHIP RES.(1608) 1/10W J 100 OHM	1	1
R501		9965 000 13036	CHIP RES.(1608) 1/10W J 1K OHM	1	1
R502		9965 000 13036	CHIP RES.(1608) 1/10W J 1K OHM	1	1
R503		9965 000 13036	CHIP RES.(1608) 1/10W J 1K OHM	1	1
R504			CHIP RES.(1608) 1/10W J 10K OHM	1	1
R505			CHIP RES.(1608) 1/10W J 10K OHM	1	1
R506			CHIP RES.(1608) 1/10W J 10K OHM	1	1
R509			CHIP RES.(1608) 1/10W J 4.7K OHM	1	1
R510			CHIP RES.(1608) 1/10W J 10K OHM		1
R511			CHIP RES.(1608) 1/10W J 100K OHM	1	1
R513			CHIP RES.(1608) 1/10W J 2.2K OHM	1	1

ELECTRICAL PARTS LIST

Pos.	▲	12 NC	Description	VR550/39	VR550/58
R514			CHIP RES.(1608) 1/10W J 820 OHM	1	1
R516			CHIP RES.(1608) 1/10W J 330K OHM	1	1
R517			CHIP RES.(1608) 1/10W J 560 OHM	1	1
R518			CHIP RES.(1608) 1/10W J 470 OHM	1	1
R520			CHIP RES.(1608) 1/10W J 10K OHM	1	1
R521			CHIP RES.(1608) 1/10W J 220K OHM	1	1
R522			CHIP RES.(1608) 1/10W J 39K OHM	1	1
R523			CHIP RES.(1608) 1/10W J 10K OHM	1	1
R524			CHIP RES.(1608) 1/10W J 5.6K OHM	1	1
R525			CHIP RES.(1608) 1/10W J 1.5K OHM	1	1
R526			CHIP RES.(1608) 1/10W J 1.8K OHM	1	1
R527			CHIP RES.(1608) 1/10W J 680 OHM	1	1
R528			CHIP RES.(1608) 1/10W J 18K OHM	1	1
R529			CARBON RES. 1/4W J 270 OHM	1	1
R530			CHIP RES.(1608) 1/10W J 180 OHM	1	1
R531			CHIP RES.(1608) 1/10W J 68K OHM	1	1
R533			CHIP RES.(1608) 1/10W J 33K OHM	1	1
R534			CARBON RES. 1/6W G 3.6K OHM	1	1
R535			CARBON RES. 1/6W G 10K OHM	1	1
R536			CARBON RES. 1/6W G 470 OHM	1	1
R537			CARBON RES. 1/6W G 22K OHM	1	1
R538			CARBON RES. 1/6W G 1.5K OHM	1	1
R539			CARBON RES. 1/6W G 4.7K OHM	1	1
R540			CHIP RES.(1608) 1/10W J 390K OHM	1	1
R541			CHIP RES.(1608) 1/10W J 390K OHM	1	1
R542			CHIP RES.(1608) 1/10W J 1.8K OHM	1	1
R543		9965 000 13036	CHIP RES.(1608) 1/10W J 1K OHM	1	1
R544			CHIP RES.(1608) 1/10W J 2.7K OHM	1	1
R545			CHIP RES.(1608) 1/10W J 2.2K OHM	1	1
R546			CHIP RES.(1608) 1/10W J 12K OHM	1	1
R547			CHIP RES.(1608) 1/10W J 1.8K OHM	1	1
R548		9965 000 13036	CHIP RES.(1608) 1/10W J 1K OHM	1	1
R549			CHIP RES.(1608) 1/10W J 1.2K OHM	1	1
R551			CHIP RES.(1608) 1/10W J 100 OHM	1	1
R552			CHIP RES.(1608) 1/10W J 10K OHM	1	1
R555			CHIP RES.(1608) 1/10W J 10K OHM	1	1
R557			CHIP RES.(1608) 1/10W J 10K OHM	1	
R558			CHIP RES.(1608) 1/10W J 10K OHM		1
R566			CHIP RES.(1608) 1/10W J 56K OHM	1	1
R615			CHIP RES.(1608) 1/10W J 10K OHM	1	1
R621			CHIP RES.(1608) 1/10W J 10K OHM	1	1
R622			CHIP RES.(1608) 1/10W J 10K OHM	1	1
R701			CARBON RES. 1/6W J 1.8K OHM	1	1
R702			CARBON RES. 1/6W J 1K OHM	1	1
R703			CARBON RES. 1/6W J 1K OHM	1	1
R706		9965 000 13036	CHIP RES.(1608) 1/10W J 1K OHM	1	1
R707		9965 000 09942	CHIP RES.(1608) 1/10W 0 OHM		1
R771			CHIP RES.(1608) 1/10W J 4.7K OHM	1	1
R772			CHIP RES.(1608) 1/10W J 100K OHM	1	1
R773			CHIP RES.(1608) 1/10W J 4.7K OHM	1	1
R774			CHIP RES.(1608) 1/10W J 22K OHM	1	1
R775			CHIP RES.(1608) 1/10W J 15K OHM	1	1
R776			CHIP RES.(1608) 1/10W J 8.2K OHM	1	1
R777			CHIP RES.(1608) 1/10W J 8.2K OHM	1	1
R778			CHIP RES.(1608) 1/10W J 33K OHM	1	1
R779			CHIP RES.(1608) 1/10W J 33K OHM	1	1
R780			CHIP RES.(1608) 1/10W J 33K OHM	1	1
R781			CHIP RES.(1608) 1/10W J 15K OHM	1	1

ELECTRICAL PARTS LIST

Pos.	▲	12 NC	Description	VR550/39	VR550/58
R782			CHIP RES.(1608) 1/10W J 33K OHM	1	1
R783			CHIP RES.(1608) 1/10W J 15K OHM	1	1
R784			CHIP RES.(1608) 1/10W J 10M OHM	1	1
R785			CHIP RES.(1608) 1/10W J 10M OHM	1	1
R786			CHIP RES.(1608) 1/10W J 2.2K OHM	1	1
R787			CHIP RES.(1608) 1/10W J 2.2K OHM	1	1
R851			CHIP RES.(1608) 1/10W J 1.5K OHM	1	1
R852		9965 000 13036	CHIP RES.(1608) 1/10W J 1K OHM	1	1
R853		9965 000 13036	CHIP RES.(1608) 1/10W J 1K OHM	1	1
RS501		9965 000 12191	REMOTE RECEIVER MIM-93M9DKF	1	1
			SWITCHES		
SW501		4822 276 13954	TACT SWITCH KSM0614B	1	1
SW502		4822 276 13954	TACT SWITCH KSM0614B	1	1
SW503		4822 276 13954	TACT SWITCH KSM0614B	1	1
SW505		4822 276 13954	TACT SWITCH KSM0614B	1	1
SW506		9965 000 16625	LEAF SWITCH MXS01830MVP0	1	1
SW507		9965 000 23359	ROTARY MODE SWITCH SSS-53MD	1	1
SW509		4822 276 13954	TACT SWITCH KSM0614B	1	1
SW510		4822 276 13954	TACT SWITCH KSM0614B	1	1
SW511		4822 276 13954	TACT SWITCH KSM0614B	1	1
SW512		4822 276 13954	TACT SWITCH KSM0614B	1	1
			MISCELLANEOUS		
2B7		9965 000 23353	SHIELD ASSEMBLY HG470ED	1	1
2B8		9965 000 08566	BUSH, LED(F) H3700UD	1	1
2B46		9965 000 12173	ROHM HOLDER H7770JD	1	1
AC001	▲	9965 000 08666	AC CORD PE8B2CG1H0A-057	1	1
F001	▲	4822 070 31602	FUSE T1.6AL/250V	1	1
FH001		4822 256 10461	FUSE HOLDER MSF-015	1	1
FH002		4822 256 10461	FUSE HOLDER MSF-015	1	1
FP562		9965 000 23357	LED DISPLAY LFU-4421-2003A	1	1
J902		4822 526 10685	BEAD CORE B16 RH 3.5X10X1.3	1	1
JW001		9965 000 13795	FLAT CABLE, 11P AWG26#2651/P1.25/150	1	1
JW002		9965 000 13795	FLAT CABLE, 11P AWG26#2651/P1.25/150	1	1
PS503		9965 000 12189	PHOTO INTERRUPTER RPI-302C70	1	1
SA001	▲	9965 000 08602	SURGE ABSORBER CNR-10D471K	1	1
T001	▲	9965 000 23360	SWITCHING TRANSFORMER 3733-S01	1	1
TP301			PCB JUMPER D0.6-P10.0	1	1
TP501			PCB JUMPER D0.6-P6.0	1	1
TP502		4822 157 10332	PCB JUMPER D0.6-P5.0	1	1
TP506		4822 157 10332	PCB JUMPER D0.6-P5.0	1	1
TP507			PCB JUMPER D0.6-P6.0	1	1
TU701		9965 000 23395	TUNER UNIT TMDZ2-761A	1	
TU701		9965 000 23391	TUNER UNIT TMDG2-861A		1
VR501		9965 000 05260	CARBON P.O.T. 100K OHM B	1	1
X301		9965 000 05629	X'TAL 4.433619MHZ	1	1
X501		9965 000 12194	X'TAL 12.000MHZ	1	1
X502		9965 000 12288	X'TAL 32.768KHZ(20PPM)	1	1
			JACK CBA(MCV-C)		
			CAPACITORS		
C101			CHIP CERAMIC CAP. B K 2200PF/50V	1	1
C102			CHIP CERAMIC CAP. B K 2200PF/50V	1	1
C103			CHIP CERAMIC CAP.(1608) CH J 470PF/50V	1	1
C104			CHIP CERAMIC CAP.(1608) CH J 470PF/50V	1	1
C105			CHIP CERAMIC CAP.(1608) F Z 0.1UF/50V	1	1
C107			ELECTROLYTIC CAP. 1UF/50V M H7	1	1
C108			CHIP CERAMIC CAP. B K 1000PF/50V	1	1
C109			CHIP CERAMIC CAP. B K 2200PF/50V	1	1
C110			CHIP CERAMIC CAP. B K 2200PF/50V	1	1

ELECTRICAL PARTS LIST

Pos.	▲	12 NC	Description	VR550/39	VR550/58
C111			CHIP CERAMIC CAP.(1608) CH J 470PF/50V	1	1
C112			CHIP CERAMIC CAP.(1608) CH J 470PF/50V	1	1
C113			CHIP CERAMIC CAP. B K 2200PF/50V	1	1
C115			ELECTROLYTIC CAP. 100UF/16V M H7	1	1
C116			ELECTROLYTIC CAP. 470UF/6.3V M	1	1
C117			ELECTROLYTIC CAP. 470UF/6.3V M	1	1
			DIODES		
D101		9965 000 12178	ZENER DIODE DZ-11BSAT265	1	1
D102		9965 000 12178	ZENER DIODE DZ-11BSAT265	1	1
D103		9965 000 12178	ZENER DIODE DZ-11BSAT265	1	1
D104		9965 000 12178	ZENER DIODE DZ-11BSAT265	1	1
D105		9965 000 12178	ZENER DIODE DZ-11BSAT265	1	1
D106		9965 000 12178	ZENER DIODE DZ-11BSAT265	1	1
			COILS		
L101		4822 526 10685	BEAD CORE B16 RH 3.5X10X1.3	1	1
L102		4822 526 10685	BEAD CORE B16 RH 3.5X10X1.3	1	1
			TRANSISTORS		
Q101		4822 130 42959	TRANSISTOR KTA1266(GR)	1	1
Q102		4822 130 42959	TRANSISTOR KTA1266(GR)	1	1
			RESISTORS		
R101			CARBON RES. 1/4W J 820 OHM	1	1
R103			CARBON RES. 1/4W J 820 OHM	1	1
R104			CARBON RES. 1/6W J 4.7K OHM	1	1
R106			CARBON RES. 1/6W J 4.7K OHM	1	1
R108			CARBON RES. 1/4W J 68 OHM	1	1
R109			CHIP RES.(1608) 1/10W J 75 OHM	1	1
R110			CARBON RES. 1/4W J 820 OHM	1	1
R112			CARBON RES. 1/4W J 820 OHM	1	1
R113			CARBON RES. 1/6W J 4.7K OHM	1	1
R115			CARBON RES. 1/6W J 4.7K OHM	1	1
R116			CARBON RES. 1/6W J 15K OHM	1	1
R117			CHIP RES.(1608) 1/10W J 10K OHM	1	1
R118			CARBON RES. 1/4W J 68 OHM	1	1
R119			CHIP RES.(1608) 1/10W J 75 OHM	1	1
R120			CARBON RES. 1/6W J 680 OHM	1	1
R123			CHIP RES.(1608) 1/10W J 220 OHM	1	1
R125			CARBON RES. 1/6W J 680 OHM	1	1
R126			CHIP RES.(1608) 1/10W J 220 OHM	1	1
R127		9965 000 09942	CHIP RES.(1608) 1/10W 0 OHM	1	1
R128		9965 000 09942	CHIP RES.(1608) 1/10W 0 OHM	1	1
			MISCELLANEOUS		
2L022		4822 502 30752	SCREW, P-TIGHT M3X10 WASHER HEAD+	1	1
A5		9965 000 16629	JACK BOARD(2-21P) HE470ED	1	1
JK101		9965 000 12197	RGB CONNECTOR MRC-021V-01	1	1
JK102		9965 000 12197	RGB CONNECTOR MRC-021V-01	1	1
			SENSOR CBA		
Q504		9965 000 08630	PHOTO TRANSISTOR PT204-6B-12	1	1
Q504		9965 000 08630	PHOTO TRANSISTOR PT204-6B-12	1	1
			AFV CBA		
			CAPACITORS		
C1			CHIP CERAMIC CAP.(1608) F Z 0.1UF/25V	1	1
C4			CHIP CERAMIC CAP. CG J 56PF/50V	1	1
C5			CHIP CERAMIC CAP. CG J 22PF/50V	1	1
C6			CHIP CERAMIC CAP. CG J 56PF/50V	1	1
C7			CHIP CERAMIC CAP. CH C 3PF/50V	1	1
C8			CHIP CERAMIC CAP. CH C 3PF/50V	1	1
C11			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1
C12			ELECTROLYTIC CAP. 10UF/16V M H7	1	1

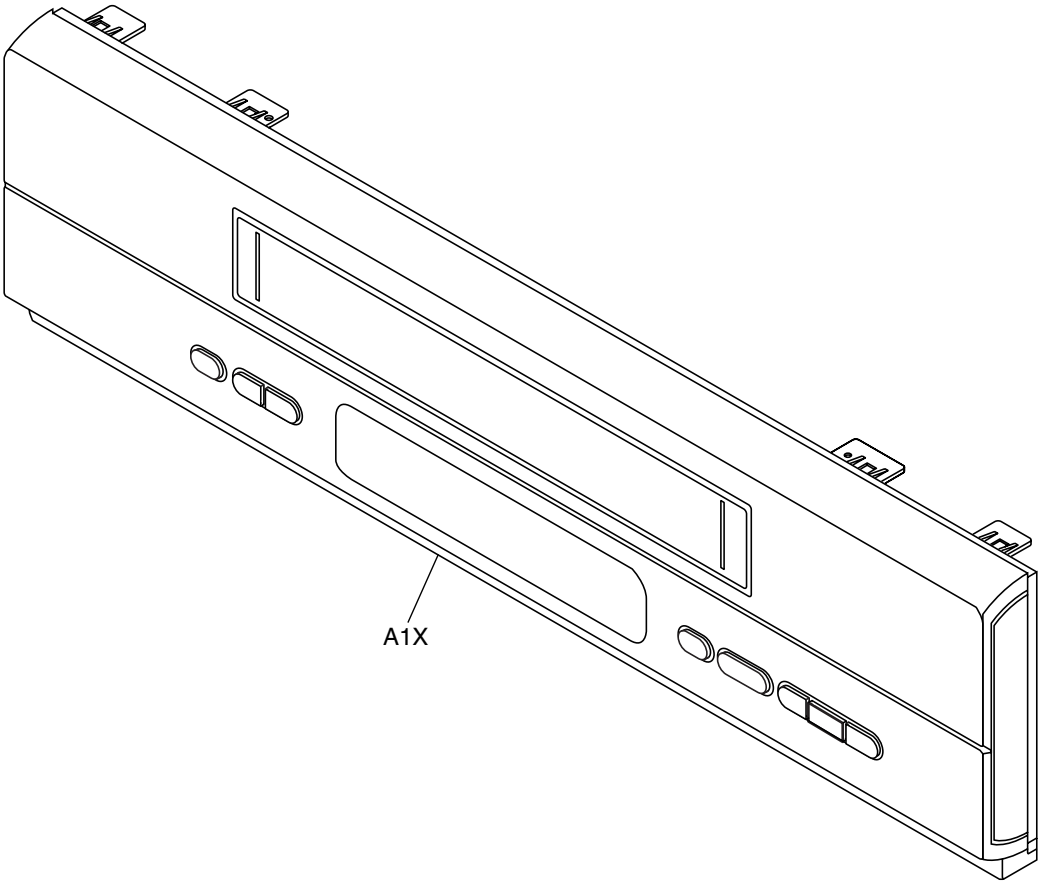
ELECTRICAL PARTS LIST

Pos.	▲	12 NC	Description	VR550/39	VR550/58
C13			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1
C14			CHIP CERAMIC CAP.(1608) B K 0.01UF/50V	1	1
C15			ELECTROLYTIC CAP. 10UF/16V M H7	1	1
C16			ELECTROLYTIC CAP. 10UF/16V M H7	1	1
C17			CHIP CERAMIC CAP.(1608) F Z 0.1UF/25V	1	1
C19			CHIP CERAMIC CAP.(1608) F Z 0.1UF/25V	1	1
C20			ELECTROLYTIC CAP. 3.3UF/50V M H7	1	1
C21			CHIP CERAMIC CAP.(1608) F Z 0.1UF/25V	1	1
C22			ELECTROLYTIC CAP. 10UF/16V M H7	1	1
C23			CHIP CERAMIC CAP. F Z 0.47UF/10V	1	
C24			ELECTROLYTIC CAP. 0.22UF/50V M H7	1	1
			CONNECTORS		
CN1		4822 265 11267	ANGLE PIN HEADER, 9P 6029B-1-09Z003-T	1	1
			DIODES		
D2		4822 130 30621	SWITCHING DIODE 1N4148M	1	1
			IC's		
IC1		9965 000 14760	IC:AUDIO PROCESSOR MSP3417G-QG-B8	1	1
			COILS		
L1		4822 157 10889	INDUCTOR 10UH-K-26T	1	1
L2		4822 157 10332	PCB JUMPER D0.6-P5.0	1	1
L3		4822 157 11318	INDUCTOR 18UH-K-26T	1	1
L4		4822 157 10889	INDUCTOR 10UH-K-26T	1	1
			RESISTORS		
R1		9965 000 13036	CHIP RES.(1608) 1/10W J 1K OHM	1	1
R2		9965 000 09942	CHIP RES.(1608) 1/10W 0 OHM	1	
R4		9965 000 13037	CHIP RES.(1608) 1/10W J 120K OHM	1	1
R5		9965 000 09942	CHIP RES.(1608) 1/10W 0 OHM	1	1
R6		9965 000 09942	CHIP RES.(1608) 1/10W 0 OHM	1	
R7			CHIP RES.(1608) 1/10W J 1.2K OHM	1	
X1		9965 000 12200	X'TAL 18.432MHZ	1	1

EXPLODED VIEWS

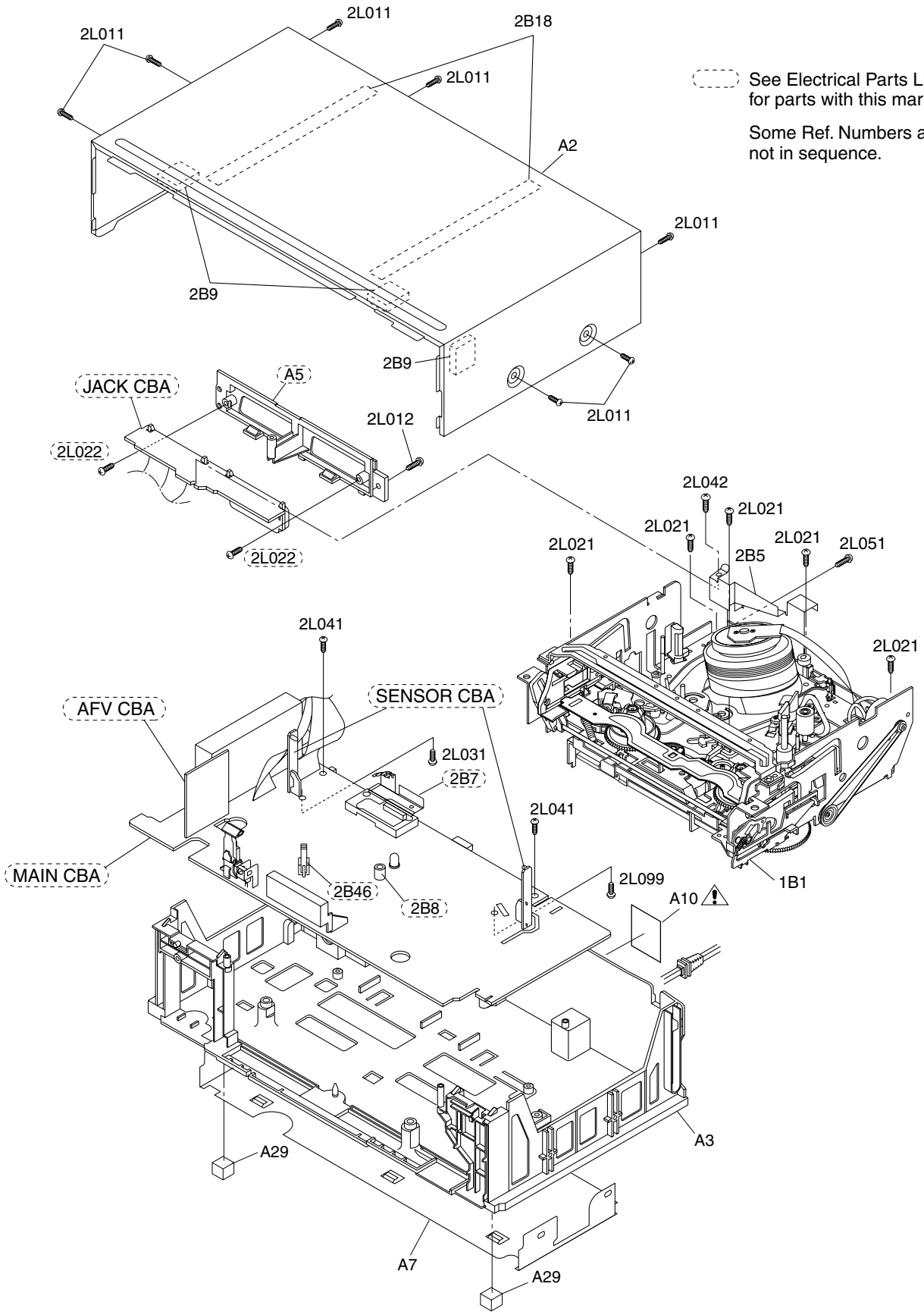
[VR550/ (39, 58)]

Front Panel



[VR550/ (39, 58)]

Cabinet



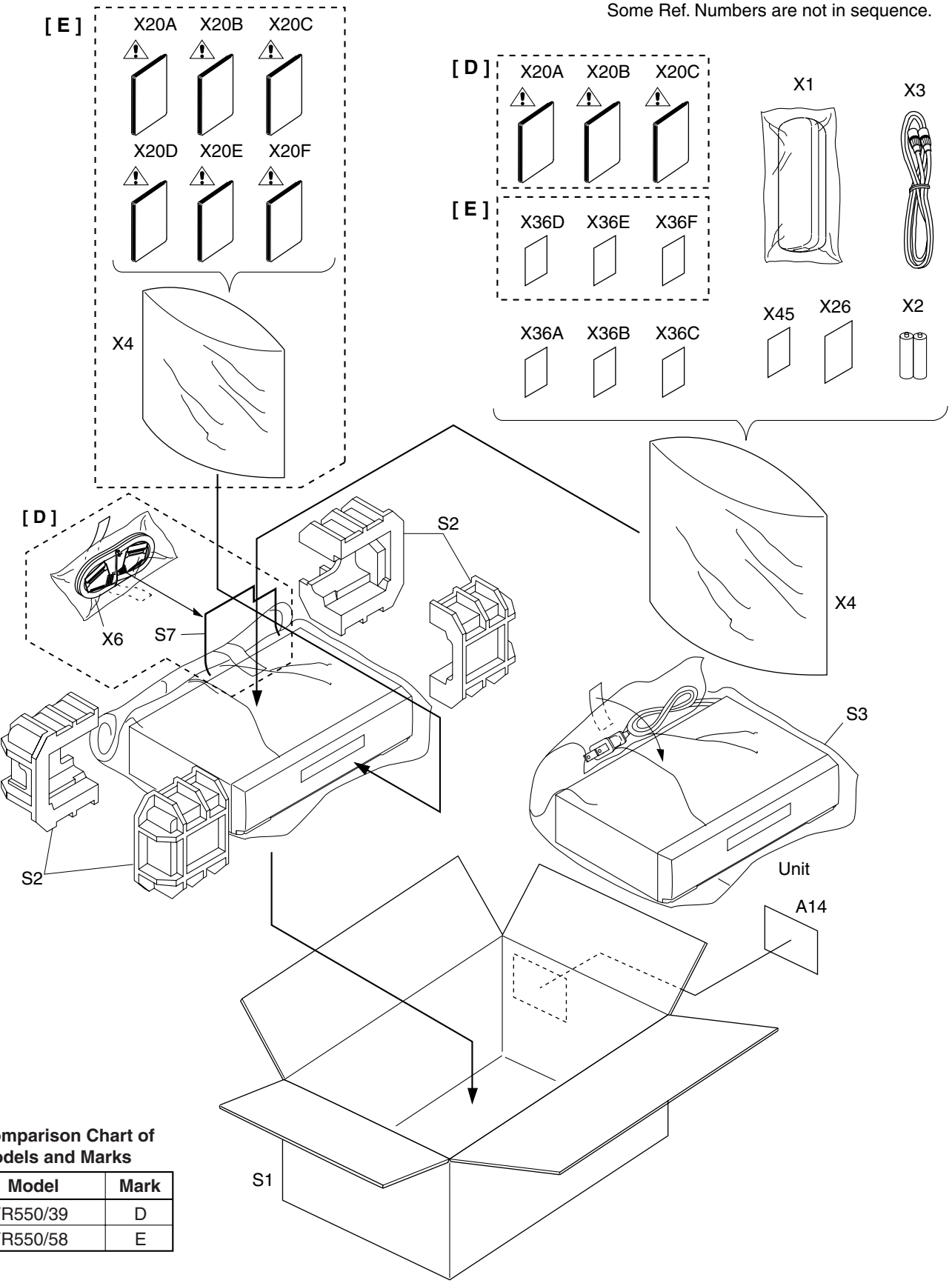
See Electrical Parts List for parts with this mark.

Some Ref. Numbers are not in sequence.

[VR550/ (39, 58)]

Packing

Some Ref. Numbers are not in sequence.



Comparison Chart of Models and Marks

Model	Mark
VR550/39	D
VR550/58	E

PRODUCT SAFETY NOTE: Products marked with a ▲

have special characteristics important to safety.
Before replacing any of these components, read carefully
the product safety notice in this service manual.
Don't degrade the safety of the product through improper servicing.

MECHANICAL PARTS LIST

Pos.	▲	12 NC	Description	VR550/39	VR550/58
A1X		9965 000 23393	FRONT ASSEMBLY HG473FD	1	
A1X		9965 000 23388	FRONT ASSEMBLY HG471BD		1
A2		9965 000 16612	CASE, TOP HE470ED	1	1
A3		9965 000 16613	CHASSIS HE470ED	1	1
A7		9965 000 16614	PANEL, BOTTOM HE470ED	1	1
A10	▲		LABEL, RATING HG473FD	1	
A10	▲		LABEL, RATING HG474ED		1
A14			LABEL, BAR CODE HG473FD	1	
A14			LABEL, BAR CODE HG474ED		1
A17			FOLLOW TV STICKER HE470ED	1	1
A29			CHASSIS FOOT H79P9JD	1	1
1B1			DECK ASSEMBLY CZD013/VM23ED	1	1
2B5		9965 000 23351	SHEILD, CYLINDER HG470ED	1	1
2B9			CUSHION HC460ED	1	1
2B18		9965 000 12400	FIBER, TOP CASE HC460ED	1	1
2L011		9965 000 16615	SCREW, P-TIGHT 3X10 BIND HEAD+	1	1
2L012		9965 000 16615	SCREW, P-TIGHT 3X10 BIND HEAD+	1	1
2L021		4822 502 30752	SCREW, P-TIGHT M3X10 WASHER HEAD+	1	1
2L031		4822 502 14009	SCREW, S-TIGHT M3X6 BIND HEAD+	1	1
2L041		4822 502 14012	P-TIGHT SCREW 3X8 BIND +	1	1
2L042		4822 502 14012	P-TIGHT SCREW 3X8 BIND +	1	1
2L051		4822 502 14018	SCREW, S-TIGHT M3X5 BIND HEAD+	1	1
2L099		9965 000 13027	SCREW, P-TIGHT M3X8 BIND HEAD+	1	1
			PACKING		
S1			GIFT BOX CARTON HG470ED	1	1
S2			STYROFOAM HE470ED	1	1
S3			UNIT, BAG V4010PA	1	1
S7			21P PAD HC463FD	1	
S12			ACCESSORY PAD HE470ED		1
X1		9965 000 23352	REMOTE CONTROL UNIT 364/CZF29UU	1	1
X3		4822 320 50377	RF CORD PAL 1.2M	1	1
X4			ACCESSORY BAG K8092BA	1	1
X6		9965 000 17135	21P SCART CABLE SD-0799(SG-D91050)	1	